

بوحة صويب بـ Camocanner

Theme

The Role of ICT in Our Lives

Lesson 1 Explorer in Action

Lesson 2 The Evolution of Technology

Lesson 3 Components of Computer Systems

Lesson 4 Software and Operating Systems

Lesson 5 Supporting People of Determination

Lesson 6 Common ICT Problems and Solutions

Lesson 7 Collecting, Analyzing and Graphing Data

Lesson 8 Reporting Findings



لوحة ضوي بـ amocanner



Explorer in Action

Albert Lin

- >> Albert Lin is an archaeologist.
- He uses different tools to explore archaeological sites without digging.





The Importance of Archaeological Tools

1 They save time, cost and effort.

توفر الوقت والتكلفة والجهد.

They help archaeologists to decide where to dig by doing surveys above the ground.

إنها تساعد علماء الآثار في تحديد مكان البحث أو الحفر عن طريق إجراء مسح فوق سطح الأرض.

Archaeological Tools

Used to locate things

Above the Ground

1 Satellites

Q GPS

3 Drones









Under the Ground

1 Magnetometer

Ground
penetrating
radar

Archaeological tools that locate things above the ground

- 1 Satellites
-) Used to get information and pictures of any area.

المستخدم الأنمار الصناعية للحصول على معلومات وصور لأى

منطقة.



- 2 GPS (Global Positioning System)
- >> Used to find the location of something using satellites.

💦 يستخدم نظام تحديد المواقع للعثور على موقع شيء ما

باستخدام الأقمار الصناعية.



- 3 Drones
- >> Used to get information and pictures of any area.

>> تستخدم الطائرات بدون طيار للحصول على معلومات وصور

لأي منطقة.



Archaeological tools that locate things underground

1 Magnetometer

- >> Used to measure the magnetic field so we can find metals (minerals) underground.
- 🕊 يستخدم مقياس المغناطيسية لقياس المجال المغناطيسي حتى نتمكن من العثور على المعادن تحت الأرض.



- 2 Ground Penetrating
- Used to discover objects buried underground.

W يستخدم الردار المن اللاص للعثور على

الأجسام المدفونة تحت الأرض.



- You don't have to be a scientist, engineer or archaeologist to use technology.
- >>> Research for technology online or ask your teacher, family and friends.

Think with me!

Mow does an archeologist explore archeological sites?

- 1 He specifies the location of the site using satellites and GPS.
- 2 He goes to the location using GPS.
- He searches for things above the ground using drones.
- He searches for things under the ground using the magnetometer and ground penetrating radar.
- How does an architect use technological tools before starting construction?
 - 1 He uses GPS to locate construction sites, such as bridges and buildings.
 - 2 He uses the magnetometer and ground penetrating radar to discover objects buried underground before construction to avoid any damage.







	that uses moder	n technology to explore
ancient wonders.	b makitan	c archaeologist
a. doctor	b. architect	c. archaeologist
above the ground.	of the archaeological to	ois that locates trings
a. magnetometer	b. drone	
c. ground penetrat		
		to to determine
locations.	had unlast rather than b	greed a 15 class aut
a. spacecrafts	b. rockets	c. satellites
A STATE OF THE PARTY OF THE PAR	s us to identify objects b	ouried underground.
a. GPR	b . GPS	c. GPA
and	are used to get picture	es of any region.
a. Satellites and GP	S b. Drones and GPS	
c. Satellites and dro	ones	
Archaeologists use	a ground penetrating ro	adar to
a. locate objects ab		
b. explore objects u		
	rection of any location	
If your friend sent u	ou a Whatcanh macca	ge containing his address
	The state of the s	Contrava di Barasi da di Barasi
this means that he	uses the	entrevoca do oserane
this means that he and an around penetrati	uses the ng radar	ent evode de la constante une la constan
this means that he and an around penetration be global positioning	ng radar g system (GPS)	c. magnetometer
this means that he and an around penetration be global positioning. What is the first ste	ng radar g system (GPS)	ent evode trees on the use
this means that he and an around penetration be global positioning. What is the first stellocation?	ng radar g system (GPS) p done by the archaeo	c. magnetometer logist to explore any new
this means that he and an around penetration be global positioning what is the first stellocation?	uses the	c. magnetometer logist to explore any new

ICT Prim. 4 - First Term 9 9 s

The is used to locate metallic bridges underground. a. magnetometer b. drone c. GPR		
 The archaeological tools help archeologists know the location of the supermarket 		
b. decide where they can dig		
c. communicate with their friends		
Write the scientific term:		
A tool that enables us to know the location of any place we		
want to visit.	(
A tool that enables us to identify buried objects underground	.(
A tool that enables us to identify minerals underground.	(
A tool that gets pictures of things above the ground with		
the help of a person that controls it on Earth's surface.	(
Put (/) or (X):		
Albert Lin uses satellites and GPR to know the location of		
ancient regions.	(
Tourists use GPS, while archaeologists can use GPS		
and GPR.	(
The archaeological tools help tourists decide where to dig.		
The Global Positioning System (GPS) is used to locate thing	S	
underground.	(
The magnetometer is used to determine directions via satellites	. (
6 Drones are used by archaeologists to get pictures of	(
objects above the ground. 7 Archaeologists use a ground penetrating radar to find	alo.	
objects above the ground.	(-
GPS is used to find any place you want to visit, and it is		
connected to satellites.	(
GPR is used to discover minerals underground before digging	g. (
Architects discover objects buried underground before		
Architects discover objects buried underground before		

Complete th	ne following sentences	11
Albert Lin is an	n that uses different	tools to explore
	ogical sites without	
The archaeolo	ogical tools save,	and they also
help archaeol	ogists	
and	are archaeological too	ols that locate things
underground,	while and locate to	hings above the ground.
and	are used to get picture	es of any area.
is used	to find the location of som	ething via
is used	to measure the magnetic f	field to explore
underground, v	while is used to discover	objects buried underground
Cross out th	e odd word:	
Magnetomete	er – GPS – GPR	
2 Satellites - GP	R - GPS	(
Chaosa from	n column (A) what suit	s it in column (P):
10/10/10/10/10	MOISING COMMENT OF COM	
Column (A)	Colum	nn (B)
Magnetometer	a enables us to aet images	of objects above the ground
GPS	b. enables us to discover i	
Th Manager River	c. enables us to know the	location of any place we
GPR	want to visit.	
Drone	d, enables us to discover o	bjects buried underground
	•	
	The state of the s	AND
	2	
	lowing scenarios below	
	lowing scenarios below	. Then decide which
Read the foll	lowing scenarios below ised:	. Then decide which
Read the following tool can be used. 1 You receive a receive a receive a receive.	lowing scenarios below used: message from your friend v	vho is lost and you
Read the following tool can be used to a receive a receive a receive to try to	lowing scenarios below used: message from your friend v find him.	vho is lost and you
Read the following tool can be used to a receive a rewart to try to 2 You want to see	lowing scenarios below used: message from your friend v	vho is lost and you ried underground. (

in the Guide School Book Questions Life Skills: 1 Read and answer: 1 In your opinion, what are the most important skills for an engineer? 2 In your opinion, what are the most important skills for an archaeologist? Graphic Organizer 2 Read and complete: Which tools help archaeologists locate things above the ground? Which tools help archaeologists locate things below the ground? (GPS - Ground penetrating radar - Magnetometer) 1 Locate things above 2 Locate things under the ground the ground 12 . ICT Prim. 4 - First Term

Critical Thinking 3 Think and answer:

Read the scenarios below. Decide which tools from Exercise 2 could be used for each scenario.

- 1 You want to see if there are any old coins buried underground.
- You receive a message from your friend who is lost and you want to try to find him.
- 3 You want to find out if there are any old buildings under the ground.

4 Discuss in pairs:

- Mr. Lin uses his engineering experiences in his archaeological work.
 Think of other subjects or backgrounds which might be useful for an archaeologist.
- 2 Technology has become very advanced in the last fifty years. Think about the next fifty years. What changes do you think we will see in technology? How might they help archaeologists?

5 Think and answer:

Imagine you are planning an archaeological expedition to find the remains of a city buried in the desert. Write a short paragraph to explain what technology you will use for your expedition and how you will use it.

[For our archaeological expedition, we will need to use]



The Evolution of Technology

Technology has come a long way! We have four ages of technology.

Age	100	17.67	m la va	0.00	m
W/A		1.25	CALLAL	E LEVE	M. 1

- 1 The Pre-Mechanical Age
- 2 The Mechanical Age
- 3 The Electro-Mechanical Age
- 4 The Electronic Age

3000 BC - 1450

1450 - 1840

1840 - 1940

1940 - present

The Pre-Mechanical Age (3000 BC - 1450)

In this age, people communicated together using pictures and drawings like hieroglyphics and then using words and numbers.

🔾 في هذا العصر، تواصل الناس معًا عن طريق الصور والرسم مثل الكتابة الهيروغليفية ثم تواصلو بالكلمات والأرقام.

Some of the tools that appeared in this age inculde:





أقلام الحبر والأقلام الرصاص

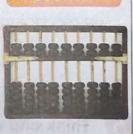












العداد الرقمي (أياكس)

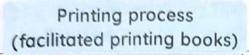
Many of these documents are available online and on The Egyptian Knowledge Bank (EKB).



Egyptian Knowledge Bank ىنك المعرفة المصرى

The Mechanical Age (1450 - 1840)

- In this age, there was a technology revolution and people recorded a tremendous amount of information, which led to a desire to make it easier to record and share this information.
 - 🌠 في هذا العصر، كانت هناك ثورة تكنولوجية وسجلت الشعوب كمية هائلة من المعلومات التي أدت إلى الرغية في تسهيل التسحيل والمشاركة.
- Some of the inventions that appeared in this age inculde:



عملية الطباعة (سهلت طباعة الكتب)

آله كاتبة

Old printing machine ماكينة طباعة قديمة

The Pascaline (an early calculator)



The Electro-Mechanical Age (1840 - 1940)

- This was the beginning of communication as we know it today and electricity was used for the first time.
 - 狐 كانت هذه بداية الاتصال كما نعرفها اليوم وتم استخدام الكهرباء لأول مرة. 🌏
- Some of the inventions that appeared in this age inculde:

Telephone, Telephone lines



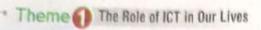
Record player



First digital computer

8 feet high - 50 feet long -2 feet wide - it weighed 50 tons





The Electronic Age (1940 - present)

- This age is known as the "information explosion age".
- Inventions and improvements are happening with amazing speed.

أعرف هذا العصر بـ "عصر انفجار المعلومات" - كانت الاختراعات والتحسينات تحدث بسرعة مذهلة.

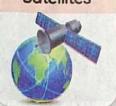
- Some of the inventions that appeared in this age inculde:
 - They help us communicate using emails and instant messages.

2 They help us locate things.





Satellites



GPS



The History of ICT

Age of Technology

The Pre-Mechanical Age 3000 BC - 1450

The Mechanical Age

The Electro-Mechanical Age 1840 – 1940

> The Electronic Age 1940 - present

Inventions

Pens - pencils - papers - parchments - abacus counter

Typewriter - printing machine - Pascaline

Telephone – telephone lines – record player – 1st computer

Computers - laptops - smartphones - word processor - software - video calls - satellites - GPS - online maps





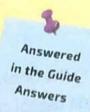
1	Choose	the	correct	answer:
---	--------	-----	---------	---------

0		e Mechanical Age, while	
		b. Abacus - telephone er	
_			
U		The mechanical revolut	
		b. Abacus	
0		mmunicated together us	
	a. letters	b. symbols	c. numbers
0	The is known as	"technology revolution of	ige".
	a. Mechanical Age	b. Electro-Mechanical A	ge
	c. Electronic Age		
6	The is known as '	"Information explosion a	ge".
	a. Mechanical Age	b. Electro-Mechanical A	ge
	c. Electronic Age	COLADO	
6	is used as a means	of communication in mo	odern times.
	a. Pencil	b. Email	c. GPS
0	The era of electronic rev	volution was characterize	ed by the existence
	of		
	a. laptops	b. typewriters	c. telephones
8	Pascaline machine is the	e first version of a	The Floring
	a. printer	b. calculator	c. typewriter
9	The printing process for	books started to appea	r in the
	a. Mechanical Age	b. Electro-Mechanical A	
	c. Electronic Age		
10	The timeline of the techi	nological evolution is	odi, i dod sele se
	a. words - pens - typew	riter	
	b. typewriter - pens - wo	ords	
	c. pens - typewriter - we	ords	
			ICT Prim. 4 - First Term • 17 •

Write the scientific term:	
The age where people used drawings and pictures to)
communicate.	(
2 The age in which the electricity was used for the first	
The age in which the printing process started to appear	ears. (
The age known as the "Information explosion age".	(
The early calculator that was used during The Mechanic	al Age.(
The way of communication between ancient Egyptic	ins. (
One of the inventions that helped people to send em	ails. (
One of the inventions that helped us locate the position	on
of any place.	(
Put (/) or (X):	
 Ancient people communicated first using symbols, the 	nen using
and numbers.	(
The abacus counter is one of the machines used in out	ir times. (
The Pascaline is an example of technology in the	
Pre-Mechanical Age.	outso (
Pens, papers and typewriters are used in the Pre-Mechanic	cal Age. (
Books began to appear in the mechanical revolution	era. (
6 Electricity was first used in The Electro-Mechanical Ac	ge. (
7 The information age extends to our present age.	(
8 Electricity, telephones and the first computer appeared	ed in
The Electro-Mechanical Age.	(
Complete the following sentences:	
is considered the first version of a calculator that w	as used in
age.	
Electricity appeared in era, which led to the app	earance o
inventions, such as and	
Ancient people communicated using and	

7	BBBON (The Evalution of Technology)
al computer appeared in nown as, and there	Age by using and the Age and it weighed are many invention in it, such
caline = Abacus = Manuse Printing machines = Reco er = Laptop = Telephone PS = Online map = Teleph	one () is it in columns (B) and (C): Column (C)
d. The Electronic Age b. The Electro- Mechanical Age c. The Mechanical Age d. The Pre-Mechanical Age	a. Printing machines, calculators and typewriters b. Satellites, smartphones, online maps – words c. Pens, pencils, parchments, papers, and abacus d. Telephones, telephone lines and record players
onto sup unati	en decide which method
ication can be used: asks you if you can meet lishort reply to say yes. nother lives in a different of	nim tomorrow and you need to city and you want to tell her ol, and what you want to do
	column (B) Accompliance of the column (B) Accompliance of the column (Column (Col

School Book Questions



Comprehension 1 Look and match:

Complete the table with the information from each box.

The Electronic Age

The Electro-Mechanical Age

The Mechanical Age

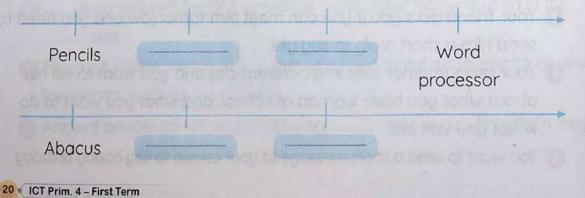
The Pre-Mechanical Age

- a. Printing machine, calculator, typewriter
- b. Satellite, smartphone, online maps, word processor
- c. Pens, pencils, parchment, paper, abacus
- d. Telephone, telephone lines, record player

Column (A) Dates	Column (B) Age	Column (C) Inventions
1 3000 BC - 1450	The Pre-Mechanical Age	TOTAL COST -
2 1450 - 1840	Talagraphers of Alcarecto	HARTING THE STATE
1840 - 1940	ntegog sail in toekstocabie	S and cally just carry
4 1940 - present	present a reads to cause	

Graphic Organizer 2 Think and write

Think about how technology develops. Look at Exercise 1 again. Complete the timelines showing how technology has developed.



Issues and Challenges 3 Practice and write

Work with a partner and practice typing and writing. Measure your speed each time. Type/write this sentence: Eat healthily, live happily, respect all and be yourself.

P.O.C.	Attempt 1	Attempt 2	Attempt 3
Writing on paper			
Typing on a cell phone (if available)	erit to so		
Typing on a computer keyboard	5.505A)	nisa ohe prela	103+ 103+

Critical Thinking 4 Think and answer

Read the scenarios. What method of communication would you choose in each situation? Write your answer and explain why.

- 1 Your friend asks you if you can meet tomorrow. You need to send him/her a short reply to say yes.
- 2 Your grandmother lives in a different city. You want to tell her about what you learned in school and what you want to do when you visit her.
- 3 You want to send a short message to your cousin to say happy birthday.

ICT and Me 5 Read and answer the questions

- 1 What kinds of technology do you use at home? How do you use them?
- 2 What kinds of technology do you want to use in the future?



Components of Computer Systems

The computer

It is an electronic device used for processing data.

هو جهاز إلكتروني يعمل كمعالج للبيانات.



The importance of the computer

- 1 It can store information and restore it.
- 2 It enables us to write documents. 3 It enables us to send emails.
- 4 It enables us to play games. 5 It enables us to browse the internet.
- 6 It enables us to edit or create data tables, Power Point presentations, spreadsheets, and videos.
 - 🧻 يمكنه تخزين المعلومات واستعادتها. 🙎 يمكننا من كتابة الوثائق.
 - 3 يمكننا من إرسال بريد إلكتروني. 4 يمكننا من ممارسة الألعاب.
- 5 يمكننا من تصفح الإنترنت. 6 يمكننا من تعديل أو إنشاء عروض باوربوينت ملفات الإكسيل فيديوهات.

Types of computers

>> The shape of a computer and its components differ according to the device's model and manufacture date.

💦 يختلف شكل الحاسب ومكوناته حسب موديل الجهاز وتاريخ تصنيعه.

Personal Computer (PC)

Laptop

Tablet

Touch computer









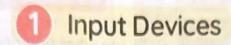
• 22 • ICT Prim. 4 - First Term



To use your computer, you need:

Input Devices

Output Devices



They are devices that enter data into a computer.

Examples of input devices:

Device	Figure	Function
1 Keyboard		To enter letters and numbers in the computer and tell it what to do. إدخال الحروف و الأرقام للكمبيوتر وإخبار الكمبيوتر بما يجب فعله.
2 Mouse		To select and move things easily using it.
Touch screen	TRACTION AND ADDRESS OF THE PARTY OF THE PAR	لتحريك واختيار الأشياء بسهولة بواسطته.
4 Camera	6	To allow others to see you. Input (image and video) السماح للآخريين برؤيتك.
5 Microphone	No.	To allow others to hear you and input sound or audio.
6 Scanner	6	It enters texts or images from paper to your computer. ال النصوص أو الصور إلى جهاز الكومبيوتر الخاص بك.

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Output Devices

They are the devices that output information.

Examples of output devices:

Device **Figure Function** To see what you and the computer are doing. لرؤية ما تفعله أنت والكمسوتر. Screen It displays information and texts written in Braille. Braille terminal يقوم بعرض المعلومات والنصوص المكتوبة بنظام برايل. To hear others. (Output sound) Speaker لسماع الآخرين. It helps people with speech disabilities to communicate. This device can change text to speech. Speech يساعد الأشخاص الذين يعانون من عدم القدرة على الكلام على synthesizer التواصل. يمكن لهذا الجهاز تحويل النص المكتوب إلى كلام. It outputs texts or images from your computer on a paper. Printer إدخال النصوص أو الصور إلى جهاز الكومسوتر الخاص بك.

You can prepare your own video or photo album using one of the applications on your device (PC - laptop - tablet) by taking a picture or a video.

يمكنك إعداد الفيديو الخاص بك أو ألبوم الصور باستخدام أحد التطبيقات الموجودة على جهازك (كمبيوتر - لابتوب - تابلت) عن طريق التقاط صورة أو مقطع فيديو.

We divide computer hardware into:

Input Devices			
Type of Hardware Component	Type of Input Data		
Keyboard	Letters & numbers		
Mouse or touchscreen	Directional data		
Microphone	Sound & music		
Camera	Images or videos		
Scanner	Text or images from paper		

Output	Devices
Type of Hardware component	Type of Output Data
Screen	Visual information: Text - image - video
Braille terminal	Text in Braille for blind people
Speaker Speech synthesizer	Audio
Printer	Text & images on paper

- >>> The most important element of the computer system is you! أنت أهم عنصر في نظام الكمبيوتر.
- Computers are only as good as the data we put in them.
 أجهزة الكمبيوتر تكون جيدة فقط بجودة البيانات التي نضعها فيها.
- If the user connects the devices wrong or uses them incorrectly, the computer will produce an error, so we must be careful while connecting them.

إذا قام المستخدم بتوصيل الأجهزة بشكل خاطئ أو استخدامها بشكل غير صحيح سوف يحدث عطل للكمبيوتر لذلك يجب أن نكون حذرين أثناء توصيل تلك الأجهزة.







Choose the correct answer:

0	The computer is an elec	ctronic device that is use	d for online.
	a. processing data	b. writing documents	c. sending emails
0	The computer's shape	doesn't depend on its	
	a. model	b. software	
	c. manufacture date		
3	The is responsible	ole for entering the data i	nto your computer.
	a. CPU	b. keyboard	c. printer
4	The is used to c	opy papers inside your c	omputer.
	a. display screen	b. scanner	c. printer
6	One of the devices that	a word processing softw	vare needs to write is
	the	And the second	
	a. speaker	b. mouse	c. keyboard
6	The is a device that	allows non-verbal perso	
	a. microphone	b. speech synthesizer	
0	No. of Contrast Contr	take audio clips out of the	e computer.
	a. The mouse	b. The speaker	
P	c. The screen zoom sof		monutar hardy and
8		e input devices of the co	inputer naraware
	components. a. speaker	b. printer	c. scanner
•			
9	components, except the	m input devices of the co	mpoter
	a. screen	b. microphone	c. keyboard
			A DO TO THE REAL PROPERTY.

	Lesson 🕙	Components of Computer	Syster	na s
are input device	es of the computer ha	rdware.		
a. Keyboard, mouse a	nd speaker			
b. Camera, scanner an	d microphone			
c. Touch screen, speak	er and printer			
The screen is considered	ed an device, w	hile the touch scr	reen	is
considered an	device.			
a. output - output	b. output - input	c. input - inp	ut	
is used to selec	t, insert or drag a file o	on the computer.		
a. mouse	b. printer	c. scanner		
The allows you	to enter a sound to yo	our computer.		
a. speech synthesizer	b. speaker	c. microphon	e	
The is used to in	put texts and images	from paper.		
a. screen	b. scanner	c. printer		
The is used to o	utput texts and image	s on paper.		
a. screen	b. scanner	c. printer		
Put (/) or (/):				
Input devices in compu	ters work on processing	ng data.	()
Non-verbal people use s	peech synthesizers to us	se the computer.	()
The scanner is used to p	rint images from the cor	mputer on paper.	()
The keyboard is a devi	ce that is used to input	t data.	()
We use scanners to tra	nsfer texts and image	s from paper		
to our computer.			()
A laptop is bigger than	a personal computer.		(3
The personal computer	converts information	into data.	()
Braille terminals and spe	eech synthesizers help	people of determ	inati	on

to use computers.

You are the main component of using a computer.

The microphone is very important to hear audio or video.

Theme The Role of ICT in Our Lives

3	Complete	the f	ollowing	sentences:
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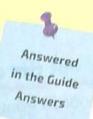
1 T	he computer is an device that is used for data, write
+1000	send online and create or .
2 T	he shape of the computer and its depend on and

3 To	o use a computer, you need to tell the computer what to do
a	nd you need to show you what the computer is doing.
4 W	vhen using a computer, you need to hear others, while you
n	eed, so others can hear you.
5 A	into a computer system using the keyboard,
th	ne computer system gives us on the
6 V	Ve can divide the computer hardware into and
0 -	and are input devices, while
4.4	and are output devices.
8	is used to input texts and images from paper, while
is	s used to output them on paper.
Co	omplete the following sentences with the suitable words
be	etween brackets:
(so	canner – screen – speaker – camera – keyboard – microphone)
1 A	enables you to enter your photo at the present.
2 A	enables you to enter the sound into the computer.
3 A	enables you to write letters and numbers.
4 A	displays information (texts, photos & videos).
5 A	is used to input texts and images from paper into the computer.

6 A _____ is used to output audio data.

Cross out the odd		Comment	Hyen	
Keyboard - Printer - (12.11		(
Touch screen – Speak			(
Speech synthesizer -	Braille ter	minal - Speaker	bankara k	
lassify these wor	ds into	input or outpu	t devices:	
(Speech synthe	sizer - T	ouch screen - Sp	eaker -	
Camer	a - Keyl	board - Printer)		
Input Devices		Output	Devices	
Contractor of the Contractor o		what suits it in Column (B		в):
		ACCUPATION OF THE PARTY OF THE		в):
Column (A)		Column (B		в):
Column (A) Hardware		Column (B		в):
Column (A) Hardware 1 Keyboards	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Column (E Function		в):
Column (A) Hardware 1 Keyboards 2 Speakers	a b	Function output audio data	as images.	в):
Column (A) Hardware 1 Keyboards	a b c.	Column (E Function	as images. mages.	B):
Column (A) Hardware 1 Keyboards 2 Speakers 3 Screens 4 Printers	a b c.	Function output audio data coutput texts and i	as images. mages.	B):
Column (A) Hardware 1 Keyboards 2 Speakers 3 Screens 4 Printers	a.b.c.d	Column (E Function output audio data view visual data of output texts and if input letters and r	as images. mages. numbers.	oalo 4
Column (A) Hardware 1 Keyboards 2 Speakers 3 Screens 4 Printers 2 Canada the description	a.b.c.d	Column (E Function output audio data view visual data of output texts and if input letters and r	as images. mages. numbers.	oalo 4
Column (A) Hardware 1 Keyboards 2 Speakers 3 Screens 4 Printers	a.b.c.d	Column (E Function output audio data view visual data of output texts and if input letters and r	as images. mages. numbers.	oalo 4
Column (A) Hardware 1 Keyboards 2 Speakers 3 Screens 4 Printers 2 Read the description	a b c d	Function output audio data view visual data o output texts and i input letters and r	is images. mages. numbers.	ring
Column (A) Hardware 1 Keyboards 2 Speakers 3 Screens 4 Printers 2 Cead the descriptions vices can also include	on belo	Function output audio data of view visual data of output texts and it input letters and remarks and answer output texts and remarks that help people of the control of the	is images. mages. numbers.	ring
Column (A) Hardware 1 Keyboards 2 Speakers 3 Screens 4 Printers 2 Read the description	on belo	Function output audio data of view visual data of output texts and it input letters and remarks and answer and answer that help people.	is images. mages. numbers. the follow	ring
Column (A) Hardware 1 Keyboards 2 Speakers 3 Screens 4 Printers 2 Lead the description Lices can also include the the name of the column	on belo	Function output audio data of view visual data of output texts and it input letters and remarks and answer and answer that help people.	is images. mages. numbers. the follow	ring

School Book Questions



1 Label the components of the computer with the words in the box:

Keyboard - Mouse - Printer - Scanner - Screen - Speaker



2 What is the component of the computer which does this function:

Functions	Components
Allows interaction with, and selection of, information.	
2 Displays visual data: texts, images and videos.	***************************************
3 Allows input of images.	
4 Allows input of text.	
5 Allows input of text and images from paper.	DBVICES CON C
6 Allows output of text and images on paper.	
7 Allows input of audio.	
8 Allows output of audio.	

Issues and Challenges 3 Look and write:

Devices can also include components to help people of determination. Read the descriptions below and write the name of the component. Then answer the question.

- This component allows blind people to use computers.
- This component allows non-verbal people to speak.

Think and write:

What other computer components might be helpful for people of determination? How can they help?

ICT and Me 5 Think and answer:

Read the questions below and think about your family, your home and your school. Discuss your answers with a partner and then write.

- 1 Do your family and friends use computers? What do they use them for?
- When might you use the following components on a device?

Camera:

Microphone:

Speaker: 3 Which component do you think is more useful: a printer or a scanner? Why?

Many modern electronic devices have very small computers or computer components in them! For example, many new cars have

computer components which can tell the driver if there is a problem with the engine. Can you think of some other devices which aren't

computers but use computer components?



Software and Operating Systems

Computer Components



IT includes:

- 1 Input devices.
- 2 Output devices.
- 3 CPU



2

Software

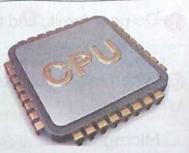
IT includes:

- 1 Operating system.
- 2 Other programs (applications).



CPU

- Central Processing Unit (CPU) is like the brain in the human body and it processes data and converts it to useful information.
 - وحدة المعالجة المركزية كالعقل في جسم الإنسان وهي تقوم بمعالجة البيانات وتحويلها إلى معلومات مفيدة.





Software

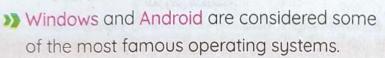
- They are programs and applications that help the user to perform any task he needs and they include:
 - 1 Operating system.
 - 2 Programs (applications).

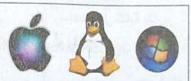
√√ هي برامج وتطبيقات تساعد المستخدم على أداء أي مهمة يحتاجها وهي تشمل: 1- نظام التشغيل 2- البرامج (التطبيقات).



Operating System

>>> The operating system software enables you to use your computer.





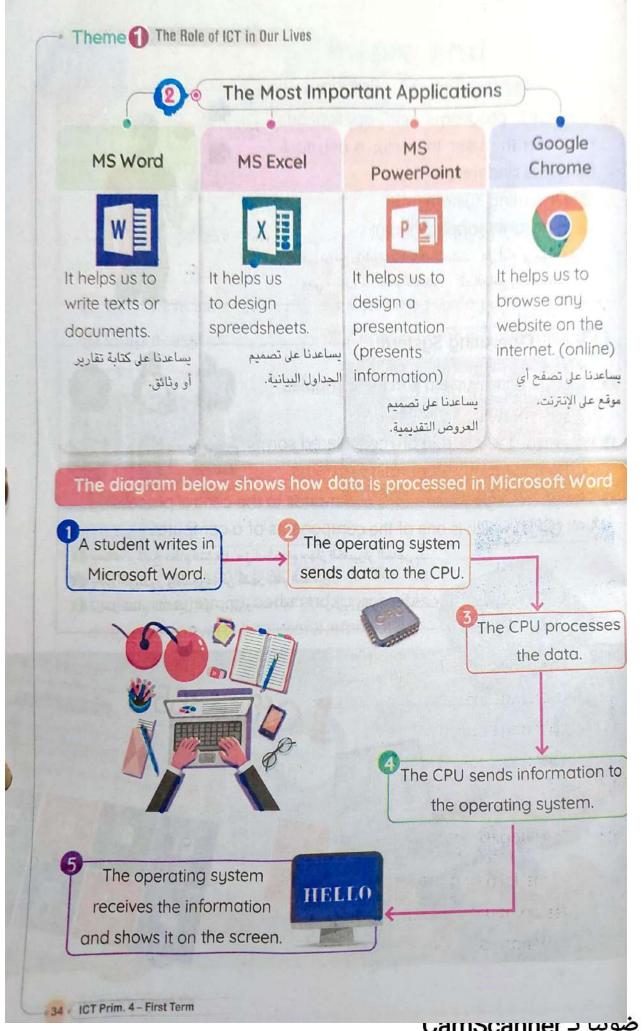
>> The operating system sends commands to the central processing unit (CPU) which is one of the components of a computer.

🕊 يمكّنك برنامج نظام التشغيل من استخدام جهاز الكمبيوتر الخاص بك.

💦 يعتبر الويندوز والأندرويد من أشهر نظم التشغيل.

₹ يرسل نظام التشغيل الأوامر إلى وحدة المعالجة المركزية والتي تعد أحد مكونات الكمبيوتر.









Choose the correct	answer:	Minist
is considered so	oftware for the personal	computer.
a. Keyboard	b. Windows	c. Screen
is considered of	the hardware compone	ents of a computer.
a. CPU	b. Browser	c. Android
is considered the search for any information	e door to the internet th	nat enables you to
a. PowerPoint	b . Google Chrome	c. Microsoft Word
a great tool th	nat enables you to crea	te your CV.
a. PowerPoint	b. Google Chrome	c. Microsoft Word
can be an effec	tive tool to present mat	erial in the classroom
and encourage studen	t learning.	the call
a. Excel	b. PowerPoint	c. Google Chrome
6 The function of the cen	tral processing unit (CP	U) is to
a. change information	to useful data	
b. change bad informa	tion to useful information	on and an
c. change data to usef	ul information	
sends data to the C	CPU then receives it in a	form of information.
a. Windows	b. Browser	c. Keyboard
	m the operating system	ns that enable you to
use computers, except		e Android
a. Windows	b. email	c. Android

It sends commands to the central proces	sing unit (CPU).	(_
It processes data and converts it to useful	I information.	(
It is considered the main tool for accessing	g websites.	(
An application that allows you to design b	ousiness document	ts.
An application that allows you to prese	nt information an	d vi
Put (√) or (X):		
	a of coftware	
The central processing unit (CPU) is a type		
Word processing software is a type of de		mnı
The operating system is not necessary fo	dealing with a co	пре
Microsoft PowerPoint helps you present in	formation in creati	ve v
The software helps in controlling proces reach information.	sing data so the	Jser
The CPU sends commands to the open	rating system to	trar
them.		
		ent,
The operating system is considered a state the CPU is considered a hardware compo		J WE
The operating system is considered a state CPU is considered a hardware composition of the CPU is considered a hardware composition of the considered and system is considered a state of the considered and state of the considered and state of the considered as stat	d any file from any	
the CPU is considered a hardware compo Google Chrome enables you to download offline.		
the CPU is considered a hardware compo Google Chrome enables you to download		

(Word - Speech synthesizer - Google chrome - Touch screen - Windows - Speaker - Camera - Keyboard - Printer - PowerPoint - Android) Hardware Software Operating System Applications Cross out the odd word: Windows - CPU - Android Keyboard - Google Chrome - Speaker Screen - Microsoft Word- PowerPoint Arrange the following stages: The operating system sends the image data to the CPU. The CPU converts data into information. The student places an image in Microsoft PowerPoint. It displays it on the screen.		10			
Printer - PowerPoint - Android) Hardware Software Printer - PowerPoint - Android Operating System Applications Cross out the odd word: Windows - CPU - Android Keyboard - Google Chrome - Speaker Screen - Microsoft Word- PowerPoint Arrange the following stages: The operating system sends the image data to the CPU. The CPU converts data into information. The student places an image in Microsoft PowerPoint. It displays it on the screen.	,				
Hardware Operating System Applications Cross out the odd word: Windows - CPU - Android Keyboard - Google Chrome - Speaker Screen - Microsoft Word- PowerPoint Arrange the following stages: The operating system sends the image data to the CPU. The CPU converts data into information. The student places an image in Microsoft PowerPoint. It displays it on the screen.	Touch sc			keyboara	NE
Cross out the odd word: Windows - CPU - Android Keyboard - Google Chrome - Speaker Screen - Microsoft Word- PowerPoint Arrange the following stages: The operating system sends the image data to the CPU. The CPU converts data into information. The student places an image in Microsoft PowerPoint. It displays it on the screen.	Harr		DISTRIBUTED DATA	re	
Cross out the odd word: Windows - CPU - Android Keyboard - Google Chrome - Speaker Screen - Microsoft Word- PowerPoint Arrange the following stages: The operating system sends the image data to the CPU. The CPU converts data into information. The student places an image in Microsoft PowerPoint. It displays it on the screen.					tions
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Windows - CPU - Android Keyboard - Google Chrome - Speaker Screen - Microsoft Word- PowerPoint Arrange the following stages: The operating system sends the image data to the CPU. The CPU converts data into information. The student places an image in Microsoft PowerPoint. It displays it on the screen.		-			
Windows - CPU - Android Keyboard - Google Chrome - Speaker Screen - Microsoft Word- PowerPoint Arrange the following stages: The operating system sends the image data to the CPU. The CPU converts data into information. The student places an image in Microsoft PowerPoint. It displays it on the screen.		SERVICE REPORT OF	or orang days with the po	50 a/a br	
Keyboard - Google Chrome - Speaker Screen - Microsoft Word- PowerPoint Arrange the following stages: The operating system sends the image data to the CPU. The CPU converts data into information. The student places an image in Microsoft PowerPoint. It displays it on the screen.	Cross out t	he odd word:			
Arrange the following stages: The operating system sends the image data to the CPU. The CPU converts data into information. The student places an image in Microsoft PowerPoint. It displays it on the screen.	1) Windows - (CPU - Android		(n - 100 100 an an an an
Arrange the following stages: The operating system sends the image data to the CPU. The CPU converts data into information. The student places an image in Microsoft PowerPoint. It displays it on the screen.	Keyboard -	Google Chrome -	Speaker	(
The operating system sends the image data to the CPU. (The CPU converts data into information. (The student places an image in Microsoft PowerPoint. (It displays it on the screen. (Screen - Mic	crosoft Word- Pov	verPoint	(
The CPU converts data into information. (The student places an image in Microsoft PowerPoint. (It displays it on the screen. (Arrange th	e following sta	iges:		
The CPU converts data into information. (The student places an image in Microsoft PowerPoint. (It displays it on the screen. (1 The operation	ng system sends t	he image data to the	CPU.	(
It displays it on the screen.					(
dealers and the symbol of the send the first state.	The student	places an image i	in Microsoft PowerPoi	nt.	(
The CPU is processing the image data. (MICHELLIA MICCECUL				(
	The CPU is p	processing the imp	ige data.		(

Data - Output device - Input device - CPU - Information

ICT Prim. 4 - First Term | 37 .

School Book Questions

in the Guide Answers

Look and complete:

Write the words from the box in the correct column.

CPU - Gaming apps - Google Chrome™ browser - Keyboard PowerPoint® - Microsoft Word® - Screen - Windows®

Hardware

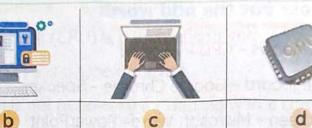
Operating Systems

Application Software

Read the steps and match them to the image. Write the letter:









You open the program and start typing.

- The program receives the data and tells the operating system. to interpret it.
- 3 The CPU receives the data from the operating system and processes it.
- After the operating system sends the information to the program, the program puts the information on the screen.

ICT and Me 3 Think and draw:

You are playing a game on your computer. Draw and label the relationship between you, the game application, the operating system, and the CPU.

Think and answer:

Imagine you are transported back in time to before computers (PCs, laptops) were invented! How would you explain the importance of a computer, how this technology spread and how it works?



Supporting People of Determination

Assistive Technology

A special kind of technology that helps people of determination with tasks that they find difficult to do. نوع خاص من التكنولوجيا يساعد أصحاب الهمم في المهام التي يجدون صعوبة في القيام معل

Aibert Lui

33 Albert Lin has a limb difference, but that doesn't stop him from explorinng many places around the world.



💦 لدى ألبرت لين فرق في أطرافه ولكن هذا لم يمنعه من استكشاف العديد من الأماكن حول العالم. Albert Lin uses a prosthetic leg that enables him to move and explore new places. يستخدم ألبرت لين ساقًا صناعية تمكنه من التحرك واستكشاف أماكن جديدة



Stephen Hawking

- >> Stephen Hawking was a physics scientist.
 - ستيفن هوكينج كان عالمًا في الفيزياء.
- >> He used a robotic wheelchair to move which was equipped with a system that enabled him to talk.
 - كان يستخدم كرسيًا متحركًا آليًا للتنقل ومجهزًا بنظام يمكنه من التحدث.

Examples of Assistive Technology

- 1 Hearing aids
- >> They help people who have trouble hearing.

يساعد الأشخاص الذين يعانون من مشاكل في السمع.

- >>> They can be connected to a user's mobile phone now يمكن الآن توصيله بالهاتف المحمول للمستخدم.
- Many of them include applications that allow users to adjust them from their mobile phones.

يشتمل على تطبيقات تتيح للمستخدم التحكم بها من خلال الهاتف المحمول.



2 Screen magnification software

- >>> It enlarges everything such as text and images on the screen of a computer. يكبر كل شيء مثل النصوص والصور على شاشة الكمبيوتر.
- >> It allows visually impaired people to interact يسمح للأشخاص ضعاف البصر بالتفاعل مع الكمبيوتر. with computers



3 Alternative communication software

- >> It helps people with speech and language disabilities to communicate with others. يساعد الذين يعانون من إعاقة في النطق أو اللغة على التواصل مع الآخرين
- >> Some computer programs can change text to speech and vice versa.

يمكن لبعض برامج الكمبيوتر تغيير النص إلى كلام والعكس صحيح.



4 Braille method

) It helps blind people to read with touch by converting letters into raised symbols. تساعد الأكفَّاء بالقراءة باللمس عن طريق تحويل الحروف إلى رموز بارزة.



5 Prosthetic devices

>> They help people who have lost their limbs to move. (People with movement difficulties)

تساعد الأشخاص الذين فقدوا أطرافهم على الحركة.







Wheelchair

Crutches (canes) Electric elevator

6 Sporting tools

- >>> Paraclimbing tools
- >>> Running tools
- >> A football that makes noise
- >> A bike with three wheels operated by hand

أدوات التسلق - أدوات الجرى - كرة القدم التي تصدر ضوضاء - دراجة بثلاث عجلات تعمل باليد





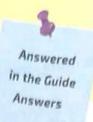
Choose the correct answer:

0	Albert Lin is a/an	week for the first took	
	a. doctor	b. architect	c. archaeologist
0	had a robotic	wheelchair that en	abled him to move.
	a. Albert Lin	b. Stephen Hawkin	g c. Anika Ullah
6	Prosthetic legs and whe	elchairs help people	e with
	a. hearing troubles	b. movement disal	oilities c. poor vision
9	Screen magnification so	oftware is very impo	ortant for
	a. blind people	b. deaf people	
	c. visually impaired peo		
6	Alternative communicat	ion software helps p	people with disabilities.
	a. speech	b. movement	c. seeing
6	is a way to co	onvert letters into ro	ised symbols that can be
	read by touch.		
	a. Smartphone	b. Touch screen	c. Braille method
0	People who have hearing	troubles can use	to interact with a computer.
nigon	a. speaker	b. hearing aids	c. synthesizer
8	The can char	nge text to audio an	d vice versa.
	a. speaker of min solds	b. microphone	
	c. alternative communic	cation software	
9	A football that makes no	oise is useful for	•
	a. people with hearing t	roubles	
	b. people with movemen	nt disabilities	c. visually impaired people
10	Which of the following is	useless for visually	impaired people?
	a. Motorized wheelchair	b. Cell phone with I	arge button
	c. Screen magnification	software	
1	Screen magnification so	ftware enables	
	a. showing information		
	c. printing papers		
1	help people with	limb difference to	go about their daily lives.
	a. Hearing aids	b. Prosthetic legs	c. Braille terminal
		Maria Tool 1	ICT Prim. 4 - First Term • 41 •

0	The kind of technology that helps people of determination	.(
)	A tool that helps people who have trouble hearing to hear.	(
)	A tool that helps blind people to read.	(
)	A tool on the computer that enables visually impaired peo	ple (
)	A tool that helps people who lost one of their limbs.	(_
)	It helps people with speech and language disabilities to com	nmu
		(
٧	Vho might find these assistive technological tools mo	re u
)	Sport balls that make noise.	(
	Cell phones with large buttons.	(
	Medical hearing aids.	(
)	Screen magnification software.	(
)	Motorized wheelchair.	(
P	or (X):	
)	Assistive technology is technology that helps people of dete	rmir
	go about their daily lives.	
)	Albert Lin uses a prosthetic leg that enables him to talk and	
	communicate.	
	Stephen Hawking used a robotic wheelchair to move which	was
	equipped with a system that enabled him to talk.	(
	Screen magnification software helps people with hearing trou	
	Braille transforms letters into raised symbols that can be re-	ad b
	touching.	-1
1	Medical hearing aids include applications that allow users to	o ac
	then from their mobile phone.	
	THE PROPERTY OF THE PROPERTY O	On
	Alternative communication software allows visually impaire to interact with a computer.	uμ

ICT Prim. 4 - First Term

	an change text to speech and vice
versa.	ested by board over help a server of the
limb difference to move.	ated by hand can help a person with
Our deaf sisters can use tech	pological tools such as speech
synthesizers.	niological tools, such as speech
Complete the following	
	ifferent kinds oftechnology.
	but that doesn't stop him, so he uses
	o move and explore new places.
	to move which was equipped with
a system that enabled him to	
	ing people to speak and communicate
with others.	
The state of the s	eed to read, while people who
have poor vision can use	
	ball that makes noise.
	is powered by your hands.
allow climbers to a	cilifib mountains.
Choose from column (A)	what suits it in column (B):
Column (A)	Column (B)
People of determination	Can use
Blind person	a. Screen magnification software
People with hearing disabilities	b. Prosthetic device
Visually impaired person	c. Alternative communication software
Person with language disability	d. Medical hearing aids
Person with a limb difference	e. Braille method
Particular Control	alo block and the



Discuss in pairs:

We all use technology every day. Look at the technologies below and circle the ones which you have used today. What did you use them for? Discus with a partner.









A light pen

Glasses

A computer

An elevator









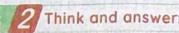
A cell phone

A car

A ball

A printer

Issues and Challenges 2 Think and answer:



How can each of these assistives technologies be useful for people? Who might find them most useful?

- Sports balls that make a noise
- Cell phones with large buttons
- 3 Hearing aids
- Screen magnification software
- Motorized wheelchairs

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3 Read and complete:

Put these steps in order. How did Stephen Hawking make use of Speech synthesizer technology?







0	When I	have	made	a	sentence,	the	computer	sends	it	to	a	speech
	synthes	izer.									1	

- 1 look at a screen. There are words on the screen.
- 3 I can press a switch in my hand. In this way, I select the words. (
- 4 The speech synthesizer changes the words into an artificial voice, 50 people can hear what I want to sau!
- 6 I can't speak so I communicate using a computer system in my wheelchair

ICT and Me 4 Think and answer:

People of determination can have difficulty doing some tasks, but assistive technology can help them enjoy the same activities as everyone else.

Read and answer the questions.

- 1 What are three things that you enjoy doing?
- 2) Why might this activity be difficult for a person of determination?
- What kinds of technology might help a person of determination to do this activity?

ICT Prim. 4 - First Term > 45



Common ICT Problems and Solutions

Sometimes your computer has a temporary breakdown that prevents you from turning it on or using it.

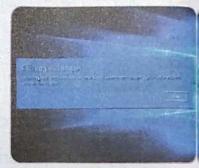
في بعض الأحيان، يعاني جهاز الكمبيوتر الخاص بك من عطل مؤقت يمنعك من تشغيله أو استخدامه،



Examples of technological problems and solutions

Problem 1 An App Won't Open

- · Restart your computer and try again.
 - If the problem is not solved,
- check that your software is up to date.
 - If the problem is not solved,
- uninstall it and reinstall the app.
 - If the problem is not solved,
- ask your teacher or family for help.



Problem (2) Your Screen Freezes

 Press and hold the "Ctrl + Alt and Del" buttons together.

If the problem is not solved,

• try to power off your computer and restart.

If the problem is not solved,

· ask your teacher or family for help.





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Problem (3) You Can't Find a File

- Check your Downloads folder.
 - If you're looking for a Microsoft Word file, look in your Documents folder.
 - If you're looking for a photo, look in your Pictures folder.

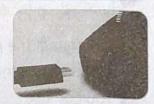
Solution



- try doing a search using the search box next to the Start button. If the problem is not solved,
- ask your teacher or family for help.

Problem (2) The Mouse Cursor Isn't Working

 Check that the mouse cable is connected to the correct place in the motherboard, then restart your device.



If the problem is not solved,

- replace the mouse because it might have a defect.
 - If the problem is not solved,
- ask your teacher or family for help.



Problem 5 The Keyboard Isn't Typing

- Check that the keyboard cable is connected to the correct place to the motherboard, then restart your device.
 - If the problem is not solved,
- replace the keyboard because it might have a defect.
 - If the problem is not solved,
- ask your teacher or family for help.



ICT Prim. 4 - First Term # 47



1 Choose the correct answer:
 If you want to find a file in your PC, you should a. restart the device b. press on Del + Alt + Ctrl c. use the Search box The command responsible for closing all the applications on personal computers or laptops is a. Del+Alt+Ctrl b. Alt+Del+Tab c. Del+Tab+Shift When there's a problem opening one of the apps on your computer, you might need to a. restart your device b. replace the mouse c. replace the keyboard It is preferable after repairing or reconnecting the mouse to
 a. connect the power charger to the device b. check electrical connections c. restart the device You can use
Complete the following sentences using the suitable words between brackets:
(find a file - screen freezes - app won't open - pointer doesn't work) 1 Press and hold the "Ctrl", "Alt" and "Del" buttons when 2 Uninstall and reinstall the app when the
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Do a search using the Search box next to the Start button to		
Check the mouse connection to the motherboard when the		
Put (√) or (X):		
The temporary breakdown of your computer allows you to use it	.(
If the app still won't open, check that your software is up to date	. (
Removing the Word program from your device helps solve mo	st	
problems.	(
If you can't find a file, you should restart your computer.	(
Press Del + Alt + Ctrl if the mouse is not activated.	(
Using the Search box helps you find any file on your PC.	(
The first thing you should do when you have a problem with you samputer is ask to your tagsher for help	our	
computer is ask to your teacher for help.	har	40
It is better to restart your computer after checking the key	DOC	11
connection	-	
connection.	(
Complete the following sentences:	(
Complete the following sentences:	nd	tr
Complete the following sentences:		
Complete the following sentences: When an app won't open, you can your computer a		
Complete the following sentences: When an app won't open, you can your computer a again, if the problem continues, you have to check that the so	ftwo	ar
Complete the following sentences: When an app won't open, you can your computer a again, if the problem continues, you have to check that the so is	ftwo	ar e
Complete the following sentences: When an app won't open, you can your computer a again, if the problem continues, you have to check that the so is Press and hold the buttons together when the screen from If you want to find a file on your computer, you can use the next to If the mouse cursor isn't working, you have to check that the mou	ftwo reez	e
Complete the following sentences: When an app won't open, you can your computer a again, if the problem continues, you have to check that the so is Press and hold the buttons together when the screen from If you want to find a file on your computer, you can use the next to	ftwo reez	e
Complete the following sentences: When an app won't open, you can your computer a again, if the problem continues, you have to check that the so is Press and hold the buttons together when the screen from If you want to find a file on your computer, you can use the next to If the mouse cursor isn't working, you have to check that the mounis connected to the correct place in the, then your computer.	ftwo reez	e
Complete the following sentences: When an app won't open, you can your computer a again, if the problem continues, you have to check that the so is Press and hold the buttons together when the screen from If you want to find a file on your computer, you can use the next to If the mouse cursor isn't working, you have to check that the mouse connected to the correct place in the, then your output your of the connected to the app when	ftwo reez se_ devi	c
Complete the following sentences: When an app won't open, you can your computer a again, if the problem continues, you have to check that the so is Press and hold the buttons together when the screen from If you want to find a file on your computer, you can use the next to If the mouse cursor isn't working, you have to check that the mouse connected to the correct place in the, then your outputs and reinstall the app when	ftwo reez se_ devi	c
Complete the following sentences: When an app won't open, you can your computer a again, if the problem continues, you have to check that the so is Press and hold the buttons together when the screen from If you want to find a file on your computer, you can use the next to If the mouse cursor isn't working, you have to check that the mouse is connected to the correct place in the, then your computer. Uninstall and reinstall the app when	ftwo reez se_se_idevi	c
Complete the following sentences: When an app won't open, you can your computer a again, if the problem continues, you have to check that the so is Press and hold the buttons together when the screen from the scree	ftwo reez se_se_idevi	ci

Answered in the Guide Answers

Comprehension 1 Look and complete:

Decide what the problem is based on the solution provided.

Solution	Problem
1 Press and hold the "Ctrl", "Alt", and "Del" buttons.	
2 Do a search using the Search box next to the Start button.	
3 Restart your computer and try opening it again.	
4 Uninstall and reinstall the app.	

2 Read and answer:

Suggest solutions to these ICT problems.

- 1 Sara is doing her homework on her Windows® PC. Suddenly, the screer freezes. She presses and holds the "Ctrl", "Alt", and "Del" buttons, bu that doesn't work. What else could she try to do?
- 2 Maged wants to send a file to his friends, but he can't find it on hil Windows® PC. What solutions could he try?
- Reem wants to listen to music on her favorite music app on her laptor, However, when she clicks on it, it doesn't open. What solutions could she try?

ICT and Me 3 Think and answer:

Write about an ICT problem that you experienced before. How was it solved?

4 Think, draw and answer:

- 1 Invent your own device! What does it look like? Draw a picture of it.
- What does it do? Write a short description.
- 3 What are possible problems that someone using your device might experience?
- 4 How can the problems experienced be solved?

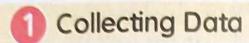
• 50 • ICT Prim. 4 - First Term



Collecting, Analyzing and **Graphing Data**

- Scientists and archaeologists can solve problems by collecting, analyzing and graphing data.
 - 🌠 يقوم العلماء وعلماء الآثار بحل المشكلات عن طريق قيامهم بجمع البيانات وتحليلها ورسمها البياني،





You can collect data from some sources, such as:

books & articles (digital or print). (logs & reports).

records

surveys.

experiments.









« يمكنك جمع البيانات من بعض المصادر مثل:

• كتب ومقالات (رقمية أو مطبوعة) • التسجيلات (السجلات والتقارير) • الدراسات الاستقصائية • التجارب

Always make sure that the information you are collecting is accurate and from reliable sources.

تأكد دائمًا من أن المعلومات التي تجمعها دقيقة ومن مصادر موثوقة.

Analyzing Data

When you analyze the data that you collected:

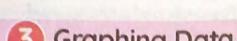
- 1 You must review your findings.
- 2 You must interpret what those findings mean.
- 3 You may have a lot of data, so look for trends (recuring patterns) in the information.



🧨 عندما تقوم بتحليل البيانات التي جمعتها:

- قم بتفسير تلك البيانات
- قم بمراجعة تلك البيانات
- قد يكون لديك الكثير من البيانات؛ لذا ابحث عن الأنماط المتكررة في المعلومات.

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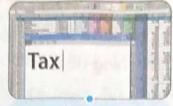


Theme 1 The Role of ICT in Our Lives

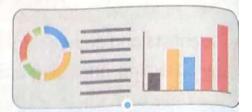
Graphing Data



1 A common graph is a bar graph.



2 You can draw it on a paper or on a computer using Excel.



3 Bar graphs: It clearly compares different categories of information.

- 🤾 الرسم البياني الشائع هو الرسم البياني العمودي.
- و يمكنك رسمه على ورقة أو على جهاز كمبيوتر باستخدام برنامج إكسيل.
- الرسم البياني العمودي: يعرض بوضوح ويقارن فئات مختلفة من المعلومات.

Example:

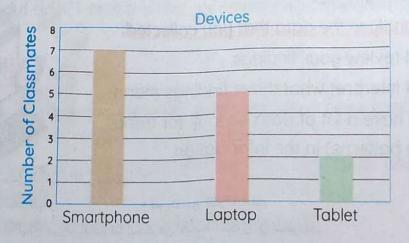
Nesma interviewed her classmates about what their favorite devices were. In total, she interviewed 14 classmates. she collected their answers and sorted them into groups.



This is the information that she analyzed

- Seven classmates said their favorite device was a smartphone.
- Five classmates said their favorite device was a laptop.
- Two classmates said their favorite device was a tablet.

After Nesma analyzed the information, she graphed it:



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	Choose the correct	answer:	
	The first step of solving		the data.
	c. graphing		
0	Scientists and archaeo		
	a. search	b. write	and the second s
3	Inside a science lab, we	do a lot of	with our teacher to
	collect data.		
	a. surveys	b. interviews	c. experiments
4	The students can do	inside the clo	ss to collect data about
	their favorite technolog	y tools.	
		b. interviews	
6	You can use	whether they are prin	ted or digital to collect
	Data.	in a stand to the	
	a. surveys	b. books	c. interviews
6	The best way to collect	information is getting	it from
	a. Facebook		
7	The best way to interpr		
	a. records		
8			
	a. MS Word		
9	When you analyze the		
		b. information	
a	Once you have analyze		nave collected, goore
	ready to graph the		c. findings
A		b. information	
a	Before you show your roal share it online with ot		b. analyze them
	c. remove them	ileis	analyze them
a	graph is the mos	st common graph to	oresent information.
· ·	a. Bar	b. Pie	C. Line
	- Dui		

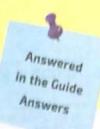
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When preparing a research, you must ensure that	the informa-
you have collected is correct.	the interrible
Surveys and experiments are the most important s	sources of d
collection.	001000 01 00
To reach accurate search results, you must use socia	I media sites
reach accordic search results, goo most use socia	(
You can follow the stops of collecting analyzing and	ovpressing de
You can follow the steps of collecting, analyzing, and in graphs to create a survey for your classmates about	
sports.	Of their ravor
	thom with Ev
You can't make graphs on paper, but you can create only.	them with Exi
Software applications are used to collect the data and	are not used
analyze and express them into a graph.	(
It is better to extract recurring patterns from the dat	a to be able
analyze it.	a to be able
The data is analyzed in order to organize it in a graph.	and some
Complete the following sentences:	
Scientists and archaeologists can solve problems by	,
and data.	
You can collect data from some sources, such as and	,
Always make sure that the information you are collect	cting is
and from sources.	
We can do in a science lab to collect reliable	le data.
During analyzing the you collected, you m then it.	ust review yo
You may have a lot of data, so look for in the ir	nformation.

and	raph is the most common graph that compare
	draw a chart after data on a or using n.
	te the following sentences with the suitable word brackets:
(Ex	el – paper – Analyzing – Bar – data collection)
1grap	is the most common graph to compare different information
2 is	one of the most popular applications for designing graphs.
3 You co	draw graphs on a
During	you must ensure that the information is accurate.
5	data is very important before drawing a chart.
Look a	the following graph, then answer the questions:
devices	erviewed her classmates about what their favorite ere. In total, she interviewed 14 classmates, then she their answers and graphed them.
	Devices
	Smartphone Laptop Tablet
What	the type of this graph?
What	the application that Nesma used?
What	the highest category?

category?

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Comprehension 7 Look, circle and write

There are a variety of sources you can use to collect data, or gather information. Look at the types of sources below and circle the ones you have used.

- a. Books b. Articles c. Reports
- e. Experiments f. Interviews g. Other;

Think and answer

Were the sources you circled above in digital, print, or both?

Research 3 Think and answer

Let's take a survey! First, prepare your survey with your teacher's help.

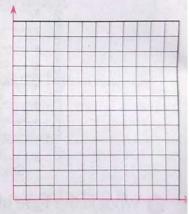
- What will be the subject of your survey?
- Mow will you present your information?
- Choose friends, family members, or classmates to answer your survey questions. List the people you will speak to below.
- Write the questions you will be including in your survey.

Write a summary

Next, conduct your survey, and analyze the results. What are the key findings?

Make a graph

Use the information you analyzed to create a (digital or printed) graph, showing the results of your survey



ICT and Me 6 Think and answer:

Digital tools are useful when it comes to collecting, analyzing, and graphing data. Which of the following programs do you think are best for analyzing data? Whu?

- A word processor (e.g. Microsoft Word®)
- Presentation software (e.g. PowerPoint®)
- A spreadsheet (e.g. Excel®)



Reporting Findings

Researchers report the information they gather in many different ways.
ways.

Some ways of archaeologists report their information

الطرق التي يقوم بها علماء الآثار بالإبلاغ عن معلوماتهم

- 1 Digital blogs المدونات الرقمية
- A website that contains personal notes and opinions. موقع يحتوي على مذكرات وآراء شخصية.
- >> Only one person is responsible for it.

يكون المسئول عنها فرد فقط.



- 2 Digital published articles مقالات رقمية منشورة
- Some of digital articles contain texts only, while some include images and infographics.

تحتوي بعض المقالات الرقمية على نصوص فقط بينما يشتمل بعضها على صور ورسوم بيانية.



- They contain information available for publication, download or distribution on digital media
 - هي نصوص منشورة الكترونيا تحتوى على معلومات متاحة للنشر او التنزيل او التوزيع على الوسائط الالكترونية.
- >>> The author of the articles does not get paid. لا يتقاضى مؤلف المقالات أموال على ذلك.
- وسائل التواصل الإجتماعي Social media sites
- It is the digital communication among people via internet that allows sharing texts, photos or videos.

هو الاتصال الرقمي بين الناس عبر الإنترنت الذى يسمح بمشاركة النصوص أو الصور أو مقاطع الفيديو.

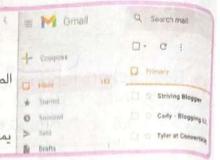




البريد الإلكتروني Email

- >>> The most common way to report data.

 الطريقة الأكثر شيوعًا للإبلاغ عن البيانات
- You can send a short report and attach a file with it.
 مکنك إرسال تقریر قصیر وإرفاق ملف به



برامج التلفزيون TV programs

These are meetings that present opinions and information in the form of television talk shows on satellite broadcasting channels.

هي لقاءات تعرض الآراء و المعلومات في شكل حوار على قنوات البث الفضائي.



المقابلات Interviews

A face-to face conversation between two or more people to obtain information.
محادثة بين شخصين أو أكثر للحصول على معلومات.



رسائل نصية Text messages

Communication among people using short text messages (SMS) via the internet.
اتصال بين الأشخاص باستخدام الرسائل النصية القصيرة عبر الإنترنت.



8 Video chats محادثات فيديو

- Communication among people using
 video through some applications
 (Messenger WhatsApp Skype).

 اتصال بين الأشخاص باستخدام الفيديو من خلال بعض التطبيقات.
- You need a camera and a microphone to communicate with others.

سوف تحتاج إلى كاميرا وميكروفون للتواصل مع الآخرين.



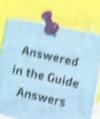




1	Choose the correct	t answer:	
	1 is used to e	express your personal op	linions on the internet.
	a. GPS	b. Digital blog	c. Email
(One of the attached	devices that you use d	uring video calls is the
	*		
	a. printer	b. scanner	c. camera
(Personal information	and opinions that expres	s their owner which are
		and downloading in vario	
	a. published articles	b. Emails	c. text messages
(4 is respons		
		b. One person	
(communicate with audio	
	a. Video calls	b. Digital articles	c. Digital blogs
-	6 contain info	ormation available for pu	blication, download or
	distribution on digital		uga kanalisaa ir
		b. Published articles	
(port information in a face	
		b. Social media	
(A CONTROL OF THE PROPERTY OF THE PARTY OF TH	ort information by writing	posts and comments
	online.	L Cocial modia	Intervious
		b. Social media	c. Interview
(ication among people usi	
		b. Social media	
		ophone are used in	
	_	b. text messages	
		exchanging messages be	
1		b. Email ation through talk shows,	
1	a. TV programs		c. video chat
	a p. eg. a. i.o	D. 1110	
			ICT Prim. 4 - First Term 9 59 0-

	Social media sites – Video chats – Interviews – TV programs – Blogs – Emails – Published digital articles – Instant messages) are visual communication online using a webcam and microph	
3 4 5 6 7 8	are the most common ways to send data and attach related are face-to face conversations between two persons to get information are communication among people using short text messages only are meetings that present information in the form of talk show are websites that contain personal notes and opinions. are ways to communicate by sharing posts and comments or	files ation ine. ws.
3	Put (/) or (X):	
1 2 3 4 5 6	Researchers always have to use published articles to report their information. A blogger is someone who runs and controls a digital blog. Email is used to share posts and comments online. Reports and publications on various websites are considered sources of digital information. Social media is the best way to reach accurate information. An interview is a face-to face conversation between two or more people to obtain information. SMS is a way of communication among people offline. The most common way to report data is by sending emails.	***
4	Complete the following sentences:	
1 2 3 4 5	is a website that contains personal opinions and is responsible for it. are meetings that present opinions and information in form of a television talk shows. Text messages help people communicate using online. Some of digital articles contain only, while some include and is a digital communication among people via the interthat allows sharing texts, photos or videos. Video chat is a way of communication among people in place using and	the
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Theme 1 The Role of ICT in Our Lives



Comprehension 1 Read, think and write:

There are a variety of formats you can use to report findings. Below are some examples. Make notes next to each format explaining how it can be used to report finding

- Blogs.
- Email
- Articles
- Social media sites
- S Text messages 6 Video chats 7 TV programs

Research 2 Read, think and answer:

Online articles allow an individual or small group to express their thoughts to their audience. Some may just include text. Others will include visual media, like pictures or graphs. Create an online article using the information you gathered in the previous lesson (7). Report your findings. To prepare:

- 1 Create an interesting headline for your article.
- 1 Who will you invite to read your article? Friends? Family? Teachers? Classmates? Explain your choices.
- 3 How will you get and keep your audience interested in reading your article?
- Write notes about how you will summarize your findings.

Create your online article:

Use the space below to write your online article. Don't forget to include visuals, like pictures or graphs, to help report your information.

Critical thinking 4 Compare and contrast:

In this lesson, you wrote an email and created an online article to report your findings. Compare and contrast the experience you had using these two methods. Include what you liked and didn't like about each method.

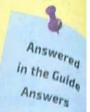
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Revision on Theme 1

	Choose the correct a	inswer:	White Carl Store
0	You want to see if there will use	are any old coins but	ried underground, you
		b. GPR	c. magnetometer
0	You want to find out if t	here are any old buildi	ngs under the ground,
	a. GPS	b. GPR	c. magnetometer
6	You receive a message to find him, you will use	from a friend who is lo	ost and you want to try
	a. GPS	b. GPR	c. drones
4	a. Pre-Mechanical		
5	The information explosi a. Mechanical		
6	allow blind pe		
0	allow non-sp a. Speakers		
8	The processe operating system.		
	operating system. a. keyboard	b. CPU	c. software
9	The operating system ra. information	b. data	shows it on the screen. c. orders
0	Press and hold the "Ctrl a. screen freezes	", "Alt" and "Del" butto b. app won't open	ns when the c. pointer won't work
1	You can use	to write school reports b. MS Excel	c. MS PowerPoint
1	is a digital to	ol that can be used to b. MS Excel	organize data c. MS PowerPoint
B	Students do a/an their favorite technolog	inside the clo	iss to collect data abou
1701	a. experiment	b. interview	C. survey
4	The most common gra a. column	ph isgraph b. bar	n. C. line

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On Theme 1



Vocabulary 7 Write and compare:

Write a sentence for each set of words to explain the connection between them. Then, compare your sentences with a partner.

- Meyboard and screen
- Operating system and CPU
- Survey and graph

Review Questions 2 Read and answer:

- Name two tools that archaeologists can use to explore the Earth.
- During which Age was electricity first used?
- Write three devices that you would likely use during a video chat.
- Mhat is assistive technology? Write one example.
- What is application software? Write one example.
- (a) Identify a common ICT problem, and one way it can be resolved.
- What is the best way to interpret a lot of data?
- Write three ways that researchers report data.

Critical Thinking 3 Think and answer:

- Mhich age of technology do you find the most interesting, and why?
- Some people say that a CPU is like the brain of a computer. Explain why that description fits.
- You have just completed your research, and you want to share the result; with your friends. How would you share this information electronically? Explain your choice.

Essential Question 4 Think and complete:

Think about the information that you have learned in this theme. How does it help you to understand how to use technology effectively? Complete the sentence with your own ideas. After studying this theme, I know that I can use technology effectively because

Activity 5 Research, create, and show:

Create your own exhibition about a type of assistive technology that you find interesting. Find photographs or draw pictures of it. Then make labels and write captions for your photographs and illustrations. Include information about:

- Mhat type of technology it uses.
- Mow it works.
- Mhere you can find/buy/see it.

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heme

Digital Safety and Security Precautions

Lesson 1 Explorer in Action

2 Online Dangers and How to Be Safe

Using ICT Tools in a Healthy and Ethical Way

Lesson 4 How to Search Online

5 How to Check Whether Information Online Is True

Lesson

6 Who Can Help You with Online Problems?

Lesson 7 My Personal Safety Plan

Lesson

8 Practicing What You Learned





Explorer in Action

- The internet can give us access to all kinds of information.
 - 💥 تمكننا شبكة الإنترنت من الوصول إلى كل أنواع المعلومات.
- The internet can be used as a powerful tool to communicate with others.
 - 🕔 يمكن استخدام الإنترنت كأداة قوية للتواصل مع الآخرين.



The Internet

>> It is a global network that connects millions of computers around the world.

هي شبكة عالمية تربط ملابين أجهزة الكمبيوتر حول العالم.



The Importance of the Internet

- Tinding answers for any questions quickly.
- 2 Collecting information for researchers.
- 3 Allowing people to communicate together.

العثور على إجابة لأي سؤال بسرعة - جمع المعلومات للباحثين - السماح للناس بالتواصل معًا.

Searching the internet

 We can type a question in the search engine to find an answer quickly.

يمكننا كتابة سؤال في محرك البحث للعثور على إجابة بسرعة.

• It is important to check the information you get is correct and accurate.

من المهم التحقق من صحة ودقة المعلومات التي تحصل عليها.



Search Engine

 It is a software program that helps people find the information they are looking for online using keywords.

هو برنامج يساعد الأشخاص في العثور على المعلومات التي يبحثون عنها عبر الإنترنت باستخدام الكلمات المفتاحية.



Google is the most popular search engine

Anika Ullah

- The biologist Anika Ullah was at a wedding; and she tried a dessert made from an unusual nut that she had never heard of.
- She looked it up in an online encyclopaedia. She found many uses for the nuts, but she also discovered that eating too many of these nuts can cause cancer.
 - ▼ تذوقت عالمة الأحياء "أنيقا أولاه" عندما حضرت زفافًا ذات مرة حلوى صنعت من نوع غريب من الجوز لم
 تسمع به من قبل، فقامت بالبحث عنه في الموسوعة الرقمية فوجدت له استخدامات متعددة إلا أنها اكتشفت أن
 تناوله بكثرة بسبب السرطان.





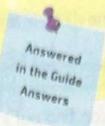


- She checked her online sources carefully, as she found scientific studies and reports written by experts.
- >>> When she discovered these nuts could be dangerous, she decided to talk to local communities about the issue.
- She wanted people to use these nuts more safely, so she made films and online campaigns to help them to lead healthier lives.
 - قامت بالتحقق من دقة المصادر على الإنترنت فوجدت دراسات علمية وتقارير رقمية كتبها الخبراء.
 - عندما اكتشفت "أنيقا أولاه" أن لهذا النوع من الجوز مخاطر كبيرة قررت التحدث إلى المجتمعات المحلية حول تلك القضية.
 - الله المرادت "أنيقا" أن يتعامل الناس بأمان مع هذا الأمر فأعدت مقاطع فيديو وحملات توعية على الإنترنت للساعدتهم على حياة صحية أكثر.



Exercises	The County of the			
Choose the correct answer:				
1 You can find the answer for any question quick a. search box near the Start button b. search engine online c. search engine offline 1 is the most famous search engine use	the internal As (U) nto Particini self (C) stadow ellococ (G)			
a. Facebook b. Windows	c. Google			
The scientific reports written by experts contaa. wrongb. accurate				
4 One of the problems that you may face while	using the internet is that			
 a. you can't get all kinds of information b. some information is inaccurate c. all information expresses opinions 5 You must to get trusted information. a. check online resources b. check the connection c. use social media sites 6 Anika Ullah is a (an) a. archaeologist b. biologist c. anthropolog 				
Anika Ullah found that eating too many of the	nese nuts cause			
a. diabetes b. diarrhea	c. cancer			
Write the scientific term:				
 It is a global network that connects millions around the world. It is a software that helps people find the interest of the looking for online. 	(

6	The most popular search engine used by people all over the world.		
)	Put (/) or (X):		
0	The internet is a global network that connects millions of comp	Dute	ers
	offline.	(
0	All the information that you get from the internet is accurate.	(
0	The internet can be used to communicate with friends or family.	(
0	Google website is the most famous operating system all		
	over the world.	(
0	Anika Ullah discovered that these nuts could be dangerous.	(
0	Anika Ullah made films and online campaigns to help them to		
		1	
	lead healthier lives.	-	
0	Complete the following sentences: The internet can give us access to all kinds of; it can also used to with the others. We can type a question in the to find answers quickly.	50 b	е
0 0 0 0	Complete the following sentences: The internet can give us access to all kinds of; it can also used to with the others. We can type a question in the to find answers quickly. is a software program that helps people find the are looking for online using The Anika Ullah was at a wedding; and she tried a made from an unusual nut that she had never heard of. Anika Ullah wanted people to use these nuts more safely so she made and online to help them to lead healthier	th e	es
123456	The internet can give us access to all kinds of; it can also used to with the others. We can type a question in the to find answers quickly. is a software program that helps people find the are looking for online using The Anika Ullah was at a wedding; and she tried a made from an unusual nut that she had never heard of. Anika Ullah wanted people to use these nuts more safely so she made and online to help them to lead healthier While searching for any information, think about the you will	th e	es
123456	The internet can give us access to all kinds of; it can also used to with the others. We can type a question in the to find answers quickly is a software program that helps people find the are looking for online using The Anika Ullah was at a wedding; and she tried a made from an unusual nut that she had never heard of. Anika Ullah wanted people to use these nuts more safely so she made and online to help them to lead healthier. While searching for any information, think about the you will rearrange the sentences below:	th e	es
123456	The internet can give us access to all kinds of; it can also used to with the others. We can type a question in the to find answers quickly is a software program that helps people find the are looking for online using The Anika Ullah was at a wedding; and she tried a made from an unusual nut that she had never heard of. Anika Ullah wanted people to use these nuts more safely so she made and online to help them to lead healthier. While searching for any information, think about the you will rearrange the sentences below: Tell the reader where the information came from.	th e	es
123456	The internet can give us access to all kinds of; it can also used to with the others. We can type a question in the to find answers quickly. is a software program that helps people find the are looking for online using The Anika Ullah was at a wedding; and she tried a made from an unusual nut that she had never heard of. Anika Ullah wanted people to use these nuts more safely so she made and online to help them to lead healthier. While searching for any information, think about the you will rearrange the sentences below:) Tell the reader where the information came from.) Think about the search terms or keywords you will use.	th e	es
123456	The internet can give us access to all kinds of; it can also used to with the others. We can type a question in the to find answers quickly is a software program that helps people find the are looking for online using The Anika Ullah was at a wedding; and she tried a made from an unusual nut that she had never heard of. Anika Ullah wanted people to use these nuts more safely so she made and online to help them to lead healthier. While searching for any information, think about the you will rearrange the sentences below: Tell the reader where the information came from.	e live	eesses



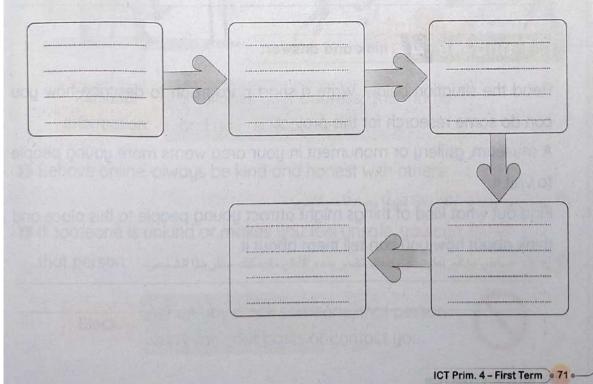
Life Skills 1 Read and answer:

What are some possible problems with finding out information online?

Graphic Organizer 2 Read and complete:

Complete this flow chart to show the sequence of activities when you research something online. Write the sentences in the box in the correct places in the flow chart.

- Cross check facts by trying to find them in more than one place.
- · Decide what information you want to find out.
- · Look carefully at the information that you have found.
- Tell the reader where the information came from.
- Think about the search terms or keywords you will use.



Online Communication

>> People use computers, phones or tablets to communicate together through instant messaging, emails and direct messages.

يستخدم الأشخاص أجهزة الكمبيوتر أو الهواتف أو الأجهزة اللوحية للتواصل معًا من خلال المراسلة الفورية ورسائل البريد الإلكتروني والرسائل الماشرة.

>>> Be careful, some people communicate online to be unkind or to steal your personal information.

كن حذرًا من أن بعض الأشخاص يتواصلون عبر الإنترنت لأغراض سيئة أو لكي يسرقون معلوماتك الشخصية.





Personal Information: It includes your address, your name and your school name.

>>> Behave online, always be kind and honest with others.

🚺 تهذب على الإنترنت ، وكن دائمًا لطيفًا وصادقًا مع الآخرين.

>> If someone is unkind or makes you feel unsafe, you can block that person. الشخص ما غير لطيف أو يجعلك تشعر بعدم الأمان ، فيمكنك حظر هذا الشخص.

Block

When you block someone, that person can't see your posts or contact you.



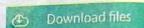
Unsafe Websites

- 39 Be careful when clicking on links, and don't click on links that you are 🐪 كن حذرًا عند النقر على أي رابط إلكتروني ولا تنقر على روابط لست متأكدًا منها. unsure of.
- If you view an unsafe scene or inappropriate site, don't panic. Leave the site and tell your teacher or a family member who can help you, إذا عرضت عن طريق الخطأ مشهدًا غير آمن أو موقعًا إلكترونيًا غير مناسب، فلا داعى للذعر اترك الموقع وأخبر معلمك أو أحد أفراد أسرتك الذي يمكنه مساعدتك.

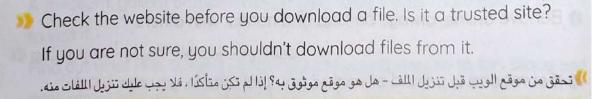




Downloading Files



- Think carefully before you download files because some files have viruses.
- >> Viruses can damage your computer or be used to track your information.
 - فكر جيدًا قبل تنزيل الملفات لأن بعض الملفات بها فيروسات يمكن للفيروسات إتلاف جهاز الكمبيوتر الخاص بك أو استخدامها لتتبع معلوماتك.



When you are using the internet, you might want to download a file, so you can look at it later, without being connected to the internet!

Sharing Data Online

Don't share personal data online without asking your teacher or a family member.

>> لا تشارك بياناتك الشخصية على شبكة الإنترنت دون استشارة معلمك أو أحد أفراد أسرتك والحصول على موافقته.

If you share your personal data online, you may receive spam messages.
الا شاركت بياناتك الشخصية على شبكة الإنترنث فقد تصلك رسائل مزعجة.





Spam Messages رسائل مزعجة

- Spam mail includes unwanted messages to advertise products or gather more information from you. The messages may also include viruses.
- If an email includes an unfamiliar address, unkown links, or messages in ALL CAPITAL LETTERS, it migh be spam.



- Check your privacy settings on social media sites.
- Make sure that only your friends and family can view your information.
 - ▼ تحقق من إعدادات الخصوصية الخاصة بك على مواقع التواصل الاجتماعي.

 واحرص على أن تكون إمكانية الإطلاع على المعلومات الخاصة بك متاحة لأفراد أسرتك و أصدقائك فقط.
- Always think before you post something, especially a photo or video.

 Ask yourself, Am I sure this photo is appropriate? Could this

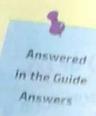
 embarrass or hurt me or others? Always think before you post about
 yourself or other people.
 - الصورة لائقة، هل تلك الصورة لائقة، عند الصورة لائقة، وهل يجوز نشرها؟ .. أو هل تسبب إحراجًا للآخرين. دائمًا فكر قبل نشر أي شيء عنك أو عن الآخرين.

ICT Prim. 4 - First Term = 75



Choose the correct answer:						
Online communication requires all the follows:	owing devices, except					
a computers b. TV	c. tablets					
People may use to communicate to:	gether.					
a. spam messages b. instant messages						
(3) If someone makes you feel unsafe, you ca	n that person.					
a. advise b. avoid	c. block					
Your includes your name, address are	nd your date of birth.					
a. spam message b. personal information c. instant message						
(5) If an email includes, this message might	be spam or include viruse					
a. familiar address b. capital letters	c. known links					
Messages calling for unreal advertisement	s in your email are					
a. spam messages b. personal information	c. downloaded files					
1 If a friend sends you a strange picture the	it scares you, what shou					
you do?						
a. Copy the picture to your computer.						
b. Tell your parents about this picture.						
c. Send the picture to all your friends.						
1 If you accidentally view an inappropriate site, what should you d						
a. Stop using technology.	b. Keep the site opened					
c. Leave the site and tell your parents.						
If you get a message from a stranger on y						
that includes a video to watch, what should you do?						
a. Download the video to watch later.						
b. Delete and ignore the message.						
C. Send him a friend request.						
10 Your friend sent you a message on a sc	ocial networking site, yo					
must						
a. close the device b. delete the message	c. check his identity					

	Lesson @ Online Dangers of	and How to Be Sof	0
Put (/) or (X):			
	ocked, they can see your posts. our friend's information without his	()
permission.		()
to your device.	own link may download viruses	()
	ed one of the ways to communica	te with	1
	riends on the internet.		,
it might be a spam.	known message in all capital letter	()
or spam messages.	personal data private to avoid vir	()
service.	SIN PERCENTION AND OF CUEL A	()
the need for the inte	file you have downloaded before		,
	rnet. I mn (A) what suits it in col u		,
CHOOSE HEAL	(A) What suits it in cold	nim (D).	
Column (A)	Column (B)		-
Spam messages	a. allow you to communicate onlin	200	
Personal information	b. prevents this person from seein	The state of the s	+c
Instant messages	c. may include unwanted advertis		15.
Blocking someone			
blocking someone	d. may include your address or you	our name.	
1	. 3		
Complete the follo	wing sentences using the wor	d in brack	cets
- De printer of the last of th	the same of the sa		
The state of the s	tant messages - personal information	THE PERSON NAMED IN	
	known address that includes adver	tisements is	
likely to be			
	file, you save it to your device.		
If yousomeo	ne, they will no longer be able to co	ontact you o	or
	re you share your address or other to communicate with friends.	online	
		Dalas A. El .	
	ICT	Prim. 4 - First Ter	m = 7



Comprehension 1 Read and Complete:

Complete the sentences. Use the following words.	
(block - download - instant messaging - personal information - sp	am
1 An email from an unknown address that includes advertisement	S is

- When you _____ a file, you save it to your device.
- If you _____ someone, they will no longer be able to contact you or view your account.
- Think carefully before you share your address or other _____ online.
- 6 You can use _____ to communicate with friends.

Life Skills 2 Think and answer:

You are setting up a new social media account. Who would you accept as a friend? Check. Then discuss your choices with a partner.



likely to be.

Name: Rami From: Unknown Age: 23



Name: Younis From: School Age: 9



Name: Malak From: My sister Age: 12



Name: Unknown From: Unknown Age: Unknown



Name: Amir From: Younis's dad Age: 32

			ngers and How to Be Safe
Which in	ow going to create your to formation would you feel ne information you would	online profile' for your soo secure sharing with peop	ole on social media?
	Telephone number	Birthday	
	• Name	• Interests	
	• Address	Favourite pla	ice
	• School	• School	
	u think of other personal		d share with
people	on social media? Write i	t below.	
ICT a	nd Me 3 Think and	d choose:	
	ne scenarios and check answer.	the boxes. There may	be more than one
Th Wl a. b. c.	u get a message from a e message tells you to a hat should you do? Download the video to wask a parent for help and Delete and ignore the many write a reply and say you	download a file to watch watch later. nd don't open the file. nessage.	n a funny video.
	riend sends you a stran	ge picture that scares	you.
a.	nat should you do? Send the picture to all y Copy the picture to you Send a message back v	r computer.	b. Tell a parent.
	u think of another online about how to respond?		
-			

ICT Prim. 4 - First Term • 79 -



Using ICT Tools in a Healthy & Ethical Way

نشر المعلومات علم شبكة الإنترنت Posting Online

- When you tag someone, you identify that person in a post, photo, or video.
- >> The tag provides a link to the person's profile.
- Anyone who has access to your account can see it.
 - عندما تقوم بالإشارة إلى شخص ما فهذا يعني تحديد هوية الشخص في منشور أو صورة أو مقطع فيديو.
 - تتضمن الإشارة لأي شخص رابط الوصول للملف الشخصي لهذا الشخص.
 - ويمكن لأي شخص لديه إمكانية الدخول لصفحتك رؤية ذلك.



When you post on social media and tag your friends,

- Make sure to ask for their permission first. It shows that you respect their privacy.
- 2. Before you post something, ask yourself, <u>Is this post kind to others?</u>
 If you are unsure, don't post it.

عندما تريد نشر معلومات عن أصدقائك على مواقع التواصل الاجتماعي وتقوم بالإشارة إليهم:

- ١. تأكد من طلب الإذن منهم أولاً لإن ذلك يظهر أنك تحترم خصوصيتهم.
- ٢٠ قبل أن تنشر شيئًا ، اسأل نفسك ، هل هذا المنشور مناسب للآخرين؟ إذا كنت غير متأكد ، فلا تنشره.

ذكر مصادر المعلومات و أصحابها Crediting Others

When you are looking for information to post online, or to include in a PowerPoint® presentation,

it's important to **credit** a **source of information** and let others know where the information you are sharing came from.

إذا كنت تبحث عن المعلومات لنشرها على شبكة الإنترنت أو لإدراجها فى عرض تقديمي تقوم بإعداده بواسطة باوربوينت فمن المهم أن توثق مصدر المعلومات التى شاركتها و تذكر أصحابها.

Respecting the Law

» Respect the law when you are posting online or searching for topics.





1 Don't go on banned sites.

Banned Sites المواقع الإلكترونية المحظورة They may publish inaccurate, immoral. and harmful material.

ربما تنشر مواد غير دقيقة، غير أخلاقية أو مضرة.

2 Ask your teacher or a family member before you go on a new site.

The positive effects of ICT tools

- 1 You can read the news with just a click of the mouse.
- 2 You can communicate with your friends and family anywhere.
- 3 You can upload and download videos and photos and view them whenever you want.





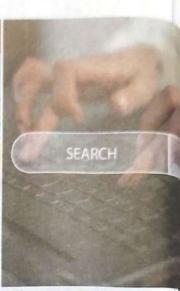


The negative effects of ICT tools

- 1 You may come across something online that upsets you.
- 2 You can get eye strain, or headaches or become lazy from using your devices too long.
- Some people may rely on searching on Google™ to answer all their questions – even though it doesn't always give the right answer!





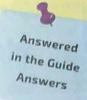


- 🚺 ربما تشاهد على شبكة الإنترنت شيئاً يزعجك.
- 2 ربما تشعر بإجهاد في عينك أو صداع في رأسك أو تصبح كسولاً عند الافراط في إستخدام الأجهزة الإلكترونية.
- قد يعتمد بعض الناس على موقع جوجل للبحث عن الإجابات عن أسئلتهم كلها على الرغم أن الموقع لا يعطي دائمًا إجابات صحيحة.
- >>> Remember to use ICT tools wisely and ethically.
- >> Stay active and social and be responsible.
 - ₩ تذكر أن عليك إستخدام أدوات تكنولوجيا المعلومات بحكمة و بطريقة أخلاقية.
 - ₩ لا تنس أن تمارس حياه إجتماعية مليئة بالحركة و النشاط و تصرف دائماً بمسئولية.



1	Choose the correct	answer:		
0	When you tag someon profile.	e, the tag provides a	to the perso	on's
	a. request	b. link	c. message	
2	Samira went to her frie What should she do? a. Share all photos on b. Tag all her friends in c. Get permission from	Facebook. a post.	took a lot of pho	otos
B	is a software w		ate presentation	-
	a. MS Word	The second second is a second	C. Windows	5.
4	One of the ethical beh			ource.
	a. credit	b. ignore	c. edit	
6	sites may publ	ish inaccurate and harn	nful material.	
	a. Scientific	b. Trusted	c. Banned	
6	One of the ethical beh	aviors in using ICT tools	is you can get	
	a. headache	b. updated news	c. wrong ar	swers
7	Spending a lot of time	using technology mak	es you feel	
	a. happy	b. lazy	c. active	
2	Put (/) or (X):			
1	When a friend is tagg	ed in your post, no one	e can see	
	his account.			(
2	You must respect the	privacy of people and	ask them	
	before posting.			(
3	Banned sites provide	valuable scientific info	rmation.	(
4	You can communicat	te with friends and fam	nily anywhere.	(
			ICT Prim. 4 – F	irst Term

5 Without the internet, you cannot see a video of	The down	(
6 All answers for any questions on Google™ are	right and	
accurate.		(
7 You can get eye strain or headaches from using	ng your dev	rices
for too long. 8 Before you post something, ask yourself: Is thi	s post kind	to
others?		
Classify these situations into positive effects of ICT tools:	or negati	ve
effects of fe f tools.		
situations	Positive	Negative
1 Adam tags his friend in an old image without		
his permission.		
2 Lara asks her friend to tag her in a picture		
before she posts it online.		
3 Sarah shares a valuable information without		
crediting the source.	on regine	
4 Ahmed works on his computer all day	P1 50 113	
without any rest.	Maria Starte	
5 Maged presents information via PowerPoint		
with its sources.		
6 Lina asks her teacher first before she goes		ale l
on a new website.		
ass not and on troot mon those for		SIW S
Estag nobre continuen - and barriage and		



Values 7 Think and answer:

Read the situations. Answer the questions.

- Nadia went to her friend's birthday party over the weekend. She took a lot of photos, including funny photos of her friends. Later that day, Nadia posted the photos on social media, and she tagged her friends. One of her friends was upset that she was tagged in a photo. What are some reasons Nadia's friend might be upset? What should Nadia do next?
 - Maged created a PowerPoint® presentation about air pollution in big cities. He worked quite hard, and did a lot of research. In his report, he included the following:
 - statistics about pollution in big cities
 - his opinions about the effects of air pollution
 - what he learned about the effects of air pollution
 - an environmental scientist's views on how to reduce air pollution
 - his experience visiting a local factory

Check the information above that needs to be credited.

Then, write why the information needs to be credited

Graphic Organizer 2 Think and write:

What are some of the pros and cons of ICT tools in everyday life? Consider:

- Access to information
- Health and exercise
- People of determination
 Privacy

Pros of Using ICT Tools

Cons of Using ICT Tools

ICT and Me 3 Write a summary:

Make a promise to yourself to use ICT tools in a healthy and ethical way Write 1-2 paragraphs to explain how you will fulfill this promise. Consider

- Posting online
- Respecting the law
- Health



How to Search Online

Searching Safely البحث بطريقة آمنة

Choose browsers that warn users before they enter an unsafe site or download a harmful app.

اختر المتصفحات التي ترسل تنبيهات للمستخدمين عند محاولة الدخول لموقع إلكتروني غير آمن أو تنزيل برنامج ضار





If you get a warning message,

- 1 Make sure to show your teacher or a family member.
- 2 Do not proceed to the site or with the download.

إذا تلقيت رسالة تحذير:

- 1 فاعرضها على أحد أفراد أسرتك أو معلمك.
- 2 لا تتابع عملية الدخول إلى الموقع أو عملية التنزيل.

Some popular browsers have search engines set up just for children.

- They will only show results that are age-appropriate.
- They also include a parental control app.
- They also include helpful safety tips for children.

تتميز بعض المتصفحات الشائعة بمحركات بحث مخصصة للأطفال:

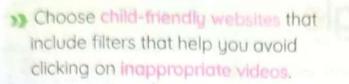
تعرض الفئة المناسبة لعمرهم.

ربما تتضمن بعض المتصفحات تطبيقًا يتيح للوالدين مراقبة أطفالهم. ربما تتضمن بعض المتصفحات نصائح مفيدة مرتبطة بأمان الأطفال.



>> Watching videos online is fun, but it's dangerous if the sites you watch videos on are not safe, or if the video shows content that is not appropriate for your age.

مشاهدة الفيدبوهات على شبكة الإنترنت أمر ممذع، ولكنه قد بشكل خطورة إذا كانت المواقع التي تشاهد عليها الفيديوهات غير آمنة أو أن الفيديو يحرض محتويات غبر مناسبة لعمرك



اختر مواقع الويب الملائمة للأطفال والتي تتضمن فلترًا يساعدك على تجنب مشاهدة مقاطع قيديو غير مناسبة.





Searching Smartly البحث بطريقة ذكية

Tupe longer phrases, not just a couple of words.

This will help you get better results. عند البحث اكتب حملًا طويلة بدلًا من الاكتفاء بكلمتين أو ثلاث يمكن لذلك مساعدتك للحصول على نتائج أفضل.

If your keywords are too general, you will get

too many results. Many of them will not be relevant to your search.

إذا كانت الكلمات المفتاحية التي تستخدمها عامة وشائعة حدًّا ستحصل على عدد كبير من النتائج وسيكون الكثير منها غير مرتبط بموضوع بحثك.

Example:

There is an animal called a jaguar. There is also a car brand called Jaguar. If you type in 'jaguar' you may get advertisements for a car! To avoid this, type jaguar animal. If you were interested in where jaguars live you could type 'jaguar - animal - habitat'.







If you are searching for information on an image,

- Use the image instead of words in your search.
- Use the camera button, and add your image.
- · Your teacher can help you.



واكنت تبحث عن معلومات عن صور؛
استخدم الصورة بدلاً من الكلمات في بحثك،
استخدم زر الكلميرا وأضف صورتك.

Important steps to help you in searching for information

- Many search engines ignore some words like (the, and, how, where, or):
- Add a + sign before the word:

 if you need these words to be included in your search.
- Add a sign before the word:
 if you you would like the search engine to avoid this word.
- Put the phrase inside quotation marks "jaguar animal habitat":
 if you are searching for a particular phrase
 - ا تتجاهل العديد من محركات البحث بعض الكلمات مثل (و، كيف، أين، أو)
 - ا أضف علامة + قبل الكلمة

إذا كنت بحاجة إلى تضمين هذه الكلمات في بحثك!

أضف علامة - قبل الكلمة

إذا كنت ترغب في أن يتجنب محرك البحث هذه الكلمة.

" ضع العبارة داخل علامتي تنصيص "موطن حيوان جاكوار"

إذا كنت تبحث عن عبارة معينة.

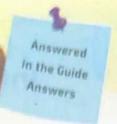




	Choose	the	correct	answer:
--	--------	-----	---------	---------

Choose the correc	c answer:	
1 What will you do if you		ge while searching online?
a. I will proceed to the		
b. I will tell my teache		
c. I will stop using the		SHIP TO SHIP THE
2 Downloading that may face you do	applications from the uring searching the inter	
	b. safe	
3 Child-friendly website	es may include to	o avoid seeing
inappropriate videos.		earti Lean Jou L. C.
a. antivirus	b. personal data	c. filters
4 help you get	relevant results for your	research.
a. Short phrases	b. Long phrases	c. General words
5 If you are interested	to know where jaguars	live, type in the
search engine.		
a. jaguar - habitat	b. jaguar + habitat +	+ car
c. jaguar + animal +	habitat	
6 How would Amira se	earch for information on	how penguins stand on
the ice all day?		Single Henrich
a. Penguins – ice – s	tand - day	
	stand on the ice all day	?
	s stand on the ice all day	
	word means you want t	
this word dur		
a. avoid	b. include	c. ignore
8 To search for summe	er fruits avoiding the pe	
in the search		, 9000000000000000000000000000000000000
a. summer fruit + pe		
b. summer fruit exce		
c. summer fruit - pe	uches	

the browser.	to the site if you receive a warning message fr (
	sites include filters to avoid inappropriate (
	are too general, you will get accurate
	nage instead of words in your search engine.
5 Writing one word	only is enough to get the best results while
searching.	and about of proper server of the contract of
6 If you need these w	words to be included in your search you
must add the - sign	n before this word.
Column (A)	Column (B)
Column (A)	a. if you would like the search engine to avoid this word.
1 Results	a. if you would like the search engine to
1 Results 2 Browser	 a. if you would like the search engine to avoid this word. b. an application that helps to access information online. c. if you are searching for a particular phr
1 Results 2 Browser 3 Search engine	 a. if you would like the search engine to avoid this word. b. an application that helps to access information online. c. if you are searching for a particular phr. d. if you need these words to be included
1 Results 2 Browser 3 Search engine 4 Add the + sign	a. if you would like the search engine to avoid this word.b. an application that helps to access information online.



Comprehension 1 Look and match:

Match th	e words	with their	meanings.
----------	---------	------------	-----------

- n browser
- 2 search engine
- 1 results
- a a software application that carries out web searches.
- b. a software application that is used for accessing information on the internet.
- c. a list that is compiled based on a search.

2 Look and write:

When might you type the following characters when searching a topic online?

- 1 + sign : ...
- 1 sign : .
- 3 Quotation marks:

Critical thinking 3 Think and write:

Think about what you learned about searching smartly. Read each topic and decide what you would type to search for it. Remember, you can include special characters that can help to narrow your search.

Topic 1:

You are searching for information about football leagues in your area. Think about what you want to avoid in your search, and ways that it could be narrowed to focus specifically on what you need.

Topic 2:

You would like to do a search on different breeds of cats. You want to avoid getting the following results:

- the play or the film cat products for sale
- cat jokes

Topic 3:

You are researching different types of plants. You want to focus your search on plants that can survive with no direct sunlight.

ICT and Me 4 Think and answer

- 1 What topics are you most interested in searching for online? Why?
- 2 When might you decide to search with a picture instead of typing text?



There are countless online sources that provide valuable information.

However, not all online sources are reliable.

Unreliable Online Sources

مصادر إلكترونية غير موثوقة

- Social media apps, wiki sources and blogs are not very reliable. They could include some credible information, but they could also include opinions, errors, or even lies.
 - المحلومات التواصل الاجتماعي والمصادر مفتوحة المصدر "ويكي" والمدونات ليست موثوقة للغاية لأن المعلومات بمكن أن تتضمن بعض المعلومات الموثوقة ، ولكنها قد تتضمن أيضًا آراء أو أخطاء أو حتى أكاذيب.

Confirming Reliable Sources

التأكد من المصادر الموثوقة

When reviewing online sources

- 1 Check the date of the publication is current.
- 2 Check the authors who are they? Are they experts in their field?
- 3 Ask your teacher or a family member to help you check.





- 1 تحقق من تاريخ النشر الحالي.
- 2 تحقق من المؤلفين من هم؟ هل هم خبراء في مجالهم؟
- 3 اطلب من معلمك أو أحد أفراد أسرتك مساعدتك في التحقق.

How to know if the source is reliable:

- 1 It will be well-written, with almost no mistakes.
- 2 The design of the page will look professional.





1 ستكون مكتوبة بشكل جيد ، مع عدم وجود أخطاء تقريبًا.

2 سيبدو تصميم الصفحة إحترافيًا.

Websites ending with	They are run by	موقع تابع لـــ
.com	businesses commercial sites	المواقع تجارية (الشركات)
.gov	government agencies	المواقع الحكومية
.org	non-profit organizations	منظمات معروفة غير هادفة للربح
.edu	colleges and universities	مواقع تعليمية (المدارس و الجامعات)

The Egyptian Knowledge Bank (EKB) موقع بنك المعرفة المصراب



- The Egyptian government is doing its best to protect its citizens from unreliable online sources.
- The Egyptian Knowledge Bank offered free access to their library to Egyptian citizens.
- The library contains materials on various subjects. All information has been verified as accurate. You can feel confident that the information provided by the EKB is reliable.
 - 🔀 تبذل الحكومة المصرية جهودًا هائلة لحماية مواطنيها من المصادر الإلكترونية غير الموثوقة.
 - 🚺 منح بنك المعرفة المصرى المواطنين المصريين إمكانية الدخول إلى مكتبته محانًا.
 - ** تحتوي هذه المكتبة على مواد في موضوعات مختلفة وقد تم التحقق من دقة تلك المعلومات ومصداقيتها.



Comprehension 1 Read and answer the questions:

1 Match the website domains to the types of groups that run them.

Column (A)

Website domain

- 1 .gov.eg
- 2 .org.eg
- 3 .edu.eg

They are run by

- a. Egyptian organizations
- b. commercial sites
- c. governmental sites

4	.com	d. educational sites
0	What do each of the grou	ps above use their website to do or to promote?
	a. Egyptian organization	S:
	b. Commercial sites:	
	c. Government sites:	
	d. Educational sites:	
3	Why can the above webs	site domains be reliable sources of information?
4	Why are blogs and soci	cial media sites usually not reliable sources o

Graphic Organizer 2 Think and write

1 What websites have you visited or heard about? Write a list.

typ	nen researchi	ing information,	it is important to unders	stand w
	oes of source	s are reliable, ar	nd which are not. Look at	your li
WE	ebsites. In the	chart below, wri	te which ones are reliable	source
inf	ormation, and	which ones are	not. Your teacher can help	you.
	Reliable S	Sources	Unreliable Source	s
ritic	al Thinkin	g 3 Think and	d answer	
		rces you listed in	n the chart above are relia	ble or
unrelia				
Rel	liable:			
***************************************	***************************************			
Un	reliable:			

CT	and Ma	Write a summ	agril and the same length of	
		S BIGUISH BU SEE	THE STREET OF THE STREET	
			ch on a topic. How will yo	
			ire you to do research? H	
choos	se sources to	use for your pr	resentation? How will you	deterr
vhich	sources are re	eliable, and whic	h ones are not?	
	***************************************		and the second s	
***************************************	***************************************			
***************************************	Marte o list			



Who Can Help You with Online Problems?

- Online problems are common. They can be scary or make you feel helpless.
- However, you can always ask for help, no matter how embarrassed or scared you feel.
 - 🥌 المشكلات التي نواجهها على الإنترنت شائعة، ربما تسبب لك الخوف أو تشعرك بالعجز،
 - 🧨 مهما تكن درجة إحراجك أو خوفك عليك طلب المساعدة من الآخرين،

Online bullying and how to avoid it التنمر عبر شبكة الإنترنت و كيفيه تلاشيه

Bullying التنمر It is a repeated unkind behavior towards someone.

هو تصرف أحد الأشخاص بطريقة سيئة بشكل متكرر تجاه شخص آخر.





- Online bullying can include mean posts, messages or texts.
- Our devices are always with us, so it can be hard to escape this kind of bullying. This may make you feel trapped.
 - 🧨 يمكن للتنمر الإلكتروني أن يتضمن منشورات بذيئة أو رسائل سيئة أو نصوصًا مؤذية.
 - 🧨 من الصعب الهروب من هذا النوع من التنمر الذي قد يشعرك أنك محاصر لأن أجهزتنا دائمًا معنا.

How to avoid online bullying

- 1 Make sure not to contact anyone you don't know.
- 2 Ask your teacher or a family member for help in any situation.



- 1 احرص دائمًا على عدم التواصل مع أشخاص مجهولين بالنسبة لك.
- 2 أخبر معلمك أو أحد أفراد العائلة بأي موقف تتعرض له لمساعدتك.

سرقة الهوية عبر الإنترنت Online identity theft

If Your identity gets stolen online:

- They may use your personal information.
- They may have access to your social media accounts.
- They could see your address, email or phone number.



و فام أحد الأشخاص بسرقة هويتك عبر الإنترنت:

مسح بإمكان السارق استعمال معلوماتك الشخصية. ينه أيضًا استعمال حساباتك على مواقع التواصل الاجتماعي. مكنه أيضًا الوصول لعنوانك أو بريدك الإلكتروني أو رقم تليفونك.

How can you face online problems?

- 1 Make sure to talk to your teacher or a family member about it.
- 2 Your teacher or a family member may feel that people in authority should get involved. This can include the police or The General

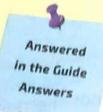


Department for Combating Internet Crimes in Egypt.

- 1 أخر معلمك أو أحد أفراد العائلة بأي موقف تتعرض له لمساعدتك.
- 2 ربما يجد الأشخاص الموثوق فيهم أنه من الضروري تدخل السلطات المختصة لتتبع تلك المشكلة مثل: الشرطة أو (إدارة مكافحة جرائم الإنترنت)



Choose the correct answer:		+
is a repeated unkind behavior towards someone.		
 a. Hacking b. Headache c. Bullying 1f you see a post from an unknown person bullying you, what do? 	o yo	U
a. I will share this post. b. I will block them. c. I will bully the street of this is called	nem. ook,	
 a. online bullying b. identity theft c. unreliable sometimes what are the actions that could expose you to identity theft? a. Blocking unkind people b. Using strong password c. Communicating with strangers If you accidently saw a scary image on a website, what would not accidently saw a scary image on a website. 		0
 a. Forward this image to your friend. b. Ask a family member to help you. c. Never go online again. 6 Online bullying makes you a. lose confidence b. happy and stronger c. an unkind point of the confidence 		on
Put (/) or (X): Solveb need no do made interpret the gian		
1 bullying is behaving in an unpleasant manner towards other per	onle	
and the second will be a second with the second sec	()
2 Not using the internet is the best solution to avoid online probler	ns.	
	()
3 Online problems are common and you can always get help.	()
4 There are unknown people on social media who want to commu	unica	te
for the purpose of data theft.	()
5 Communicating with strangers can help you avoid online proble	ems.	
	()
6 Online bullying causes a person to lose confidence and feel trap	pped	
	()
ICT Prim. 4 – First Te	rm • 9	9



Issues and Challenges 1 Read and choose:

Read the situations and check the best answer.

- 1 Your friend is getting bullied online. He/She is upset. What do you say to your friend?
 - a. "You're being a bit silly about this. Get over it!"
 - b. "Let's bully them back!"
 - c. "We should get their personal information and post it for everyone to see. Then they will stop."
 - d. "You need to tell your teacher or a family member, even if you don't want to"
- 2 You accidentally end up on a website that includes bad language and scary images. What do you do?
 - a. Forward it to a friend and ask if this is something you should show to your teacher or a family member.
 - b. Look for contact information on the site so you can send a complaint
 - c. Leave the site immediately. Ask your teacher or a family member to help set parental controls on your device.
 - d. Leave the site immediately, and never go online again.

Comprehension 2 Think, and answer:

Read and answer the questions.

- What would you do if you were bullied on a social media platform?
- When someone tries to commit online identity theft, what information might they look for?
- Mho should you turn to when you experience online problems? why?

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ICT and Me 3 Think and write

Imagine that The General Department for Combating Internet Crimes in Egypt is looking for junior volunteers to help them protect its citizens from cyberattacks. You have been chosen to lead the Junior Division!

① Choose three friends, siblings, or classmates to be part of your cybersecurity group. Write their names and explain their roles.

Name	Role
3-14(-14)40-18-18(-14)-18-18-18-18-18-18-18-18-18-18-18-18-18-	

- 2 You need to choose your teacher or a family member to oversee your group. Who would you choose, and why?
- 3 Give some examples of how your group would help protect others from online threats.
- 4 The General Department for Combating Internet Crimes in Egypt wants to give each member of your group a special badge for all your hard work. Draw a picture of what the badge might look like. Include images or words that relate to online security.



My Personal Digital Safety Plan

Creating Strong Passwords

إنشاء كلمة مرور قوية

It is important to have strong passwords.

- If your passwords are easy to guess, people can get into your accounts.
- This is called hacking and the people who do it are called hackers.



من المهم أن تمثلك كلمة مرور قوية:

أإذا كانت كلمة المرور الخاصة بك سهلة التوقع فقد يتمكن بعض الأشخاص من الدخول إلى حسابك. وهذا ما يعرف بالقرصنة والأشخاص الذين يقومون بذلك يطلق عليهم قراصنة الكمبيوتر.

How to Create a Strong Password

- A strong password will include letters, numbers, and special characters.
- 2 A strong password should be at least eight characters long.
- Your password shouldn't include your name or other personal details.
 - 4 Don't use the same password for all your accounts. If someone gets your password, they will be able to access your other accounts, too.



- 1 إذا أردت كلمة مرور قوية فيجب أن تتضمن حروفًا وأرقامًا ورموزًا خاصة.
 - 2 يجب أن تتكون كلمة المرور من ثمانية حروف على الأقل.
- 3 بحب ألا تتضمن كلمة المرور اسمك أو أي معلومات شخصية أخرى.
- لا تستخدم كلمة مرور واحدة للدخول لجميع حساباتك، فإذا تمكن أحد الأشخاص من معرفة كلمة المرور سيتمكن من الدخول لجميع حساباتك.

It is tough to remember a lot of passwords.

Use a password manager or keep a list of your passwords in a safe place that only you and your teacher or a family member

have access to.

من الصعب تذكر الكثير من كلمات المرور،

لذلك استخدم نظام إدارة كلمات المرور أو قم بإعداد قائمة بهذه الكلمات واحتفظ بها في مكان آمن حتى يمكنك أنت أو معلمك أو أحد أفراد عائلتك الوصول إليها.



Choosing Anti-virus Software اختیار برنامج مکافحة الفیروسات

A computer virus can cause big problems, such as:



 Sending an email to everyone on your computer or deleting your files.

يمكن للفيروسات التي تصيب جهاز الكمبيوتر أن تؤدى إلى مشاكل خطيرة مثل: إرسال رسائل إلكترونية دون علمك إلى عناوين الأشخاص على جهازك أو حذف ملفاتك.

A good anti-virus software can

- 1 Catch viruses before they affect your device.
- 2 Remove viruses that have already affected your device.



تقوم برامج مكافحة الفيروسات ب:

- رصد الفروسات قبل أن تصيب جهازك.
- القضاء على الفيروسات التي أصابت جهازك.
 - إصلاح الملفات المتضررة على جهازك.

Be careful while using the internet کن حریصًا عند استخدام شبکة الإنترنت

You should be aware of the importance of staying safe while using the internet.
house of the importance of staying safe while using
the internet.

How Can You Be Safer Online?

- By using different passwords for
- >>> Your different accounts on social media platforms, like Facebook and email sites.
- >> Your digital devices (computer, laptop, tablet, mobile phone).
- By installing anti-virus software on your devices:
- There are websites that offer security services for your accounts.
- They do this by giving you instructions to follow for creating passwords for your personal accounts.





هناك مواقع على شبكة الإنترنت توفر بعض خدمات التأمين لحسابك وذلك بإعطائك بعض التعليمات التي يجب مراعاتها عند إنشاء كلمة المرور الخاصة بك،

Make sure you choose strong passwords which nobody can guess.

₩ احرص على اختمار كلمات مرور قوية وغير متوقعة من الآخرين.



Using easy passwor	ds could expose i	you to
a. hacking	b. bullying	c. viruses
A strong password	must include at le	ast characters.
a. six	b. eight	c. ten
Which password is t	he strongest one	
a. abc12345	b. A@b56	c. H@68#agB
Your password show guess it.	uldn't include	because the hacker can
a. small lettersc. special character	'S	onal information
To remember your	password easily, <u>ı</u>	you have to
a. use the same pa	ssword for all you	raccounts
b. use easy and sho	ort passwords	
c. keep a list of you	r passwords in a	safe place
Anti-virus application device.	onsviru	ses before they affect your
a. remove	b. catch	c. delete
One of the ways to	be safe when usi	ng the internet is using
passwords.		
a. short	b. same	c. different
out (/) or (X):		9-11-2000

S SERVICED TO	
4 9-11-2000	
3 abcdefgh	
2 ad#@54t	
1 Ahmed012888337	775
Weak Password	Reason
Why are the fo	ollowing passwords unsafe to be used
1	2 . 3 4
4 Unreliable sources	d. could damage and delete your files.
2 Bullying 3 Hacking	c. is using your personal information by strain
1 Viruses	a. is unkind behavior that makes you lose confib. may include opinions or even lies.
Online problems	Description
Column (A)	Column (B)
Choose from co	olumn (A) what suits it in column (B)
8 Francisco good or	en en est fina amonto de la
your files.	noose strong passwords which nobody can g
	d an email to everyone on your computer or
	move viruses before they affect your device.
	assword makes you safer online.
	rd should be at least eight capital letters.
internet.	

School	Book Que	stions	Answered in the Guide
9820 4 6		340110	Answers
ife Skills 1	Look and answer		
Are these password	ds secure? Suggest	ways they can b	e made more secure.
Abdelaziz456	dQvlvtM	abcl123	Password*1
Think and answ	rer:		
			d a strong password.
Explain why each	is either weak or s	trong.	
0	0	3	4
Critical Think	king 3 Think	and write:	
	eps you safe while		How does a good
	e protect your con		
4 Think and draw			
1 Design a logo	for anti-virus softv	ware. Draw the lo	go here.
			THE REAL PROPERTY.
	- North Control of		
CONTRACTOR OF THE STREET		xplain why peop	le should choose this
anti-virus soft	ware.		
			ICT Prim. 4 - First Term • 107•

Researchers and scientists prepare digital reports about the subject of their studies using different programs like:

PowerPoint®, video, documentaries or personal blogs

to spread their findings and benefit people as best as they can.

يعد الباحثون أو المستكشفون تقارير رقمية حول مواضيع دراستهم باستخدام برامج متعددة منها: برنامج العروض التقديمية (باوربوينت) أو بإعداد الفيديوهات أو الأفلام الوثائقية أو المدونات الشخصية من أجل نشر نتائجهم وإفادة الناس قدر الإمكان.

1 Microsoft PowerPoint

>>> PowerPoint® is a Microsoft program that helps us design a presentation.



هو برنامج من شركة مايكروسوفت يساعدنا في تصميم العروض التقديمية.

PowerPoint® is a fun way to present your ideas to others

- You can make text look interesting using WordArt®.
- You can also make your presentation appear like a book.
- In your book, you can include text and pictures about your topic.
 You can even include fun sound effects.



بعد طريقة ممتعة لتقديم أفكارك للآخرين من خلال:

• يمكنك جعل النص يبدو ممتعًا باستخدام تأثيرات النص. • يمكنك أيضًا جعل عرضك التقديمي يبدو مثل الكتاب. • فبكتابك، يمكنك تضمن نصوص وصور حول موضوعك. بمكنك حتى تضمين مؤثرات صوتية ممتعة.

2 Videos

How can you present your research by video?

1 You can make one on a laptop, tablet, or cell phone without needing film sets or expensive cameras.



- 2 You can record yourself presenting your ideas.
- 3 You can interview others, and include them in your video, too.
- 4 You can also add more details and fun effects with different sounds and images.





كيف يمكنك تقديم بحثك بالفيديو؟

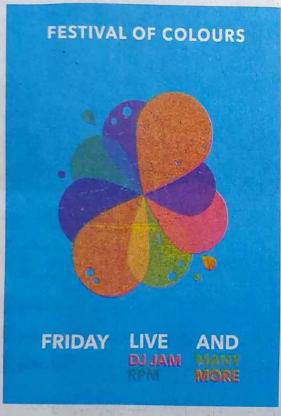
- 1 يمكنك صنع فيديو على جهاز اللاب توب أو الجهاز لوحي أو الهاتف محمول دون الحاجة إلى استديوهات تصوير أو كاميرات باهظة الثمن.
 - 2 يمكنك تسجيل نفسك وأنت تقدم أفكارك (صوت و صورة).
 - 3 يمكنك إجراء مقابلات مع الآخرين وتضمينهم في الفيديو الخاص بك أيضًا.
 - لمكنك أيضًا إضافة المزيد من التفاصيل والتأثيرات المتعة بأصوات وصور مختلفة.
- There is a special video software you can download to help you.
- Remember to check and make sure an application is safe before you download it.
 - يوجد برنامج فيديو خاص يمكنك تنزيله لمساعدتك تذكر من التحقق من أن التطبيق آمن قبل تنزيله.

Posters

One fun and effective way to present your research is by creating a poster.

How to design a poster

- 1 Choose fun colors when writing information that include art like drawings, photos or cutouts.
- 2 Always present your ideas clearly.
- 3 Always make sure that the text is large enough for others to read from a distance.
- 4 Also, always remember to credit your sources.



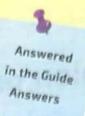


- 1 استخدم ألوانًا زاهية لكتابة المعلومات واجعل الملصق يبدو كلوحة فنية من خلال الرسومات و الصور.
 - 2 احرص دائمًا على تقديم أفكارك بوضوح.
 - 3 احرص دائمًا على الكتابة بخط عريض ليتمكن الآخرون من قراءة المعلومات من بعيد.
 - 4 احرص على أن تذكر مصدر معلوماتك.



	Exercises	or medicular allow		
Choose the corr	ect answer:			
is a Microsoft p	rogram that enables you t	o design a presen	tatio	n
a. MS Word	b. MS Excel	c. PowerPoint		
Researchers can in	nclude their interviews with	others in their		
a. posters	b. videos	c. presentatio	ns	
Microsoft PowerPo	int includes all the following	ng, except		
a.interviews	b. texts	c. WordArt		
WordArt in PowerF	oint makes texts look	• (4) (8)		
a. smaller	b. interesting	c.boring		
To design a creativ	ve poster, you must			
a. use texts withou	ut drawings			
b. use drawings w	ithout texts	rerobet prespor		
c.use texts with fu	un colors and drawings			
Put (/) or (X):				
Scientists use Pow	verPoint®, videos or person	nal blogs to prese	ent th	e
researches.	notion () Poster ((
The presentation o	f PowerPoint may include t	exts, photos and		
Part of the latest the			(
	others using your mobile p		(
THE RESERVE OF THE PARTY OF THE	that the text is small enoug		(
Always make sole	mat the text to simal enough	y good poolon		

	fe Skills 1 Think and answer:
to m yc	their audience. Some may just include texts. Others will include vieledia, like pictures or graphs. Create an online article using the informatic gathered in the previous lesson (7). Report your findings. To preport what is the topic you will be researching? Choose one of the informatic texts.
	below.
	Water shortages in Egypt
	 Littering problems in Egypt How the fast-food industry is affecting the health of Egyptians
3	Why did you choose this topic?
3	Who is your target audience?
9	Which browser(s) and search engine(s) do you plan on using Remember, think about safety!
3	Choose a teacher or member of your family to help guide you your search. Write your choice below and explain why you chose person.
6	Which presentation method do you plan on using? Check. Be sure consider your method when you are researching your topic. PowerPoint® presentation () Poster () Video ()
2	Take Notes:
	you research, write notes in your notebook. Be sure you include sour you can credit them in your presentation.
	At our grains superfeat the text is small enough in your poster.
7 /	Complete an outline:



present	your information.	about more entre about the form of the
Introd	uction	
Impor	tant section 1:	
Impor	tant section 2:	
Impor	tant section 3:	
Concl	usion	
4 Cred	ate your presentation	on:
Remen and int	urate. Check that mber to credit your teresting. Have fun	k and answer:
2 Who	at part of the rese	earching process did you find the most difficult? and if so, who did you ask?
PART OF THE PART O	lain your choice o	f presentation method. Why did you choose to
The second of		out the research process that you might do Explain why or why not.

Revision on Theme 2

	And in case of the last of the
Choose the correct answer:	Monter Charles To a line of
 We use a to copy the paper a. display screen b. speech c. scanner 	
 If your friend sent you friend request a. turn off the device b. delete t c. verify his identity 	
 includes your name, addre Personal information b. Spam r Download file 	ss and date of birth. nessage
If a friend sends you a file and you need to	want to save it on your device, you
a. download the file b. block the	ne file c. scan the file
is one of the advantages of a. Bullying your colleagues c. Over-use of electronic devices	f ICT tools. b. Helping people of determination
 is one of the most reliable so a. Published articles b. Digital I c. The Egyptian Knowledge Bank 	
The program protects yo they may be exposed to.a. word processing b. operation	
You can design your CV using a a. screen magnification b. word process.	program.
9 You can prepare a presentation us	ing
a. PowerPoint b. Word	c. Excel
protects your devices fro exposed to.	m the dangers that you may be
a. Word processing b. PowerF	oint c. Anti-virus
	ture of you without your permission.
a. kind b. unkind	c. normal
One of the strong passwords is	
a. ahmed b. Ahmed Put (/) or (X):	@3# c. 12345678
den gray to gray	
1 You can download files to your device	
Blocking is one of the ways to com online.	imunicate with your friends
The quotation mark "" is used to limit	the search results you want. ()
THE RESERVE OF THE PARTY OF THE	

	Lesson (3) Practicing What You L	earne	d)-
You must ask permiss related to your friends	sion before posting any information s.	()
You can enter the libra (EKB) for free.	ary of the Egyptian Knowledge Bank	()
	(.edu) have a high degree of credibility.	(1
	ers using your mobile phone or laptop.	(1
	ou cannot see a video after downloading it.	()
	personal data private to avoid viruses		-
or spam messages.		()
Google is the most fa	mous operating system all		
over the world.		()
Choose from colur	nn (A) what suits it in column (B)):	
Column (A)	Column (B)	66	1
Personal information Instant messages Blocking someone	 a. allow you to communicate online. b. prevents this person from seeing your person include unwanted advertisement. d. may include your address or your na 		
0	Helbow 13	er k	
	Waterian our Committee of the Committee		
Column (A)	Column (B)		1
Website domain	They are run by the angle	4.4	
1 .com	a. non-profit organizations.		
2 .gov	b. colleges, and universities.		7
3 .org	c. government agencies.		
4 .edu	d. businesses commercial sites.	fald	
0 2	(4) 10 (4) (3) 10 (4) 11 (4) 11 (4)	iari l	
Column (A)	Column (B)	riffits Andre	1
1 Results	a. if you would like the search engine to		
2 Browser	avoid this word.	+ho	
3 Search engine	b. an application that helps you access information online.	llie	2
4 Add a + sign before	c. if you are searching for a particular ph	nras	e.
the word	d. if you need these words to be included		
	your search.		0
5 Add a - sign before		torn-	+
the word 6 Put the statement	e. an application is used to search on the int f. a list of results that are displayed base		

on Theme 2



Vocabulary 1 Write and compare:

Write a sentence for each set of words to explain the connection between them. Then compare your sentences with a partner.

Block and bullying

Credit and source of information

3 Identity theft and spam

Review Questions 2 Read and answer:

1 List three sources researchers can use to do research.

What do computer viruses do to a device and to the information on the device?

3 What should you do before tagging a friend in a photo or post?

4 Why is it helpful to put a phrase in quotes during an online search?

3 What is one reason a blog may not be a reliable source?

6 What is an example of online bullying?

What is hacking?

8 What is PowerPoint®?

Critical Thinking 3 Think and answer:

1 Why is the Egyptian Knowledge Bank a reliable source of information?

2 Explain why crediting a source is an example of ethical behavior.

3 How has ICT positively affected your life?

Essential Question 4 Think and complete:

Think about the information that you have learned in this theme. How does it help you to understand how to be safe and use reliable sources when online? Complete the sentence with your own ideas: After studying this theme, I know that I can be safe and use reliable sources.

Activity 5 Research and create:

Create an exhibition about a consumer product that uses ICT that you find interesting. Find photographs or draw pictures of it. Then make labels and write captions for your photographs and illustrations. Include information about:

- What makes it so interesting?
- How it works / how it helps users?
- The pros and cons of using such a device on a regular basis.
- Where can you find / buy / see it Invite your classmates to visit your exhibition?

General instructions

- >>> The tasks are to be distributed, administered and assessed in two successive classes (one period).
- >>> The teacher is to distribute the tasks and explain what to do each task.
- >> Students can use the student's book.

"A diagram of operations that computer can do for processing data inside it"

Task Description

Dear student,

The computer stores, processes and outputs data as information.

Draw data input and processing steps to the computer until data appears as information on the screen. (In case coloring pens are available, you can use them to clarify each process).

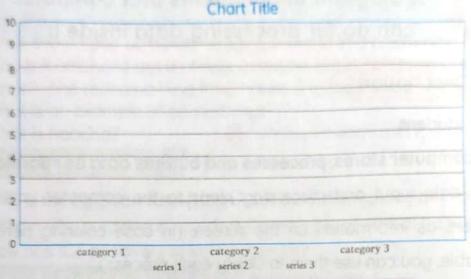
You can use the following words to help (Operating system - CPU - Data entry - Display screen).

Task Description

Dear student,

You conducted a questionnaire to your colleagues on the best digital communication applications they prefer, you found out that:

Ten of your colleagues prefer email. Seven of your colleagues prefer WhatsApp
Three of your colleagues prefer SMS. Use the following chart to express
the achieved results. (In case coloring pens are available, you can use
them to clarify the questionnaire results)



"Preparing and writing an email to your colleague"

Task Description

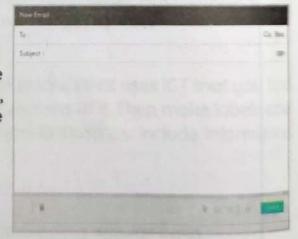
Dear student,

Your teacher asked you to prepare a research about a certain topic, then to send it to your colleague (Ibrahim) via email...

Write an email to your colleague clarifying the points below:

• To • Subject • Email body

You can use the opposite figure to help.





"Design a logo for your school's bullying awareness team"

Task Description

Dear student

Your teacher asked you to form a team to raise the students, awareness of the dangers of bullying in your school, and to Design a logo for this team. (In case coloring pens are available, you can use them to draw the logo)



"Poster Design team"

Task Description

Dear student,

The country establishes a lot of projects, one of which is water consumption rationalization.

Draw a poster presenting some phrases or paintings to urge your colleagues on water consumption rationalization.